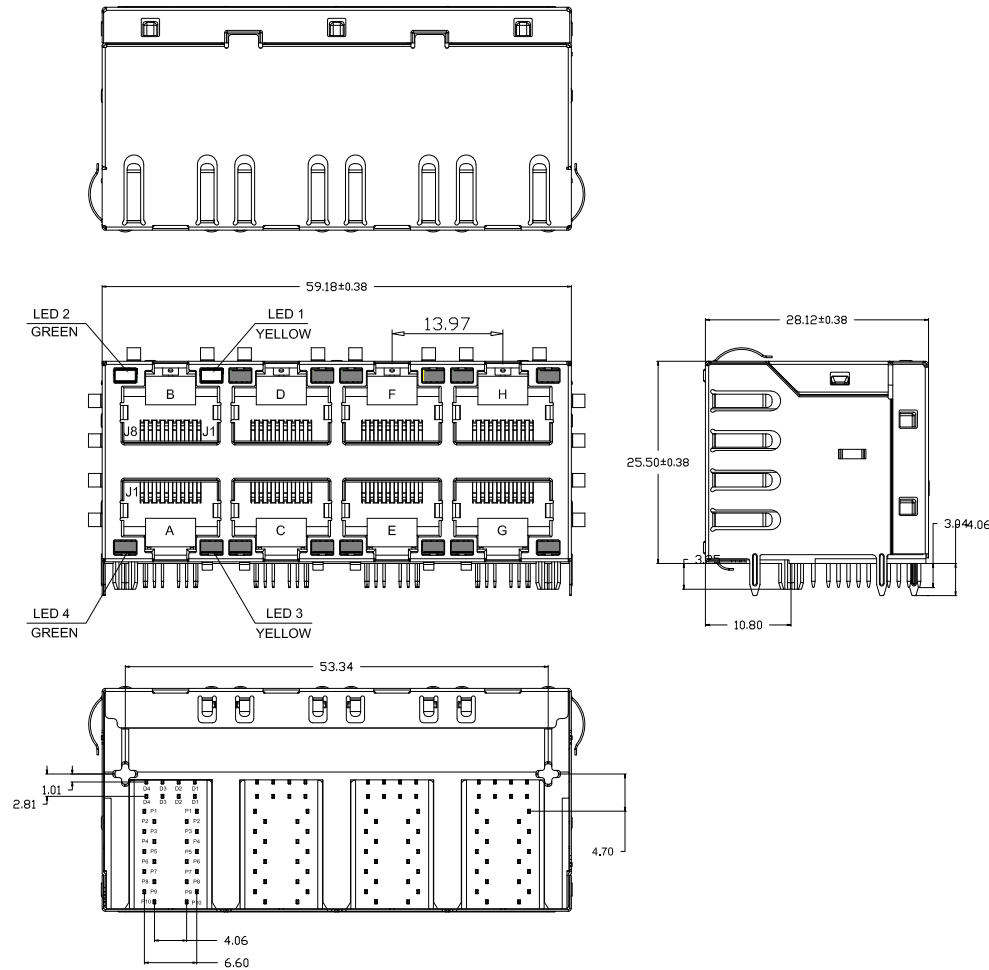
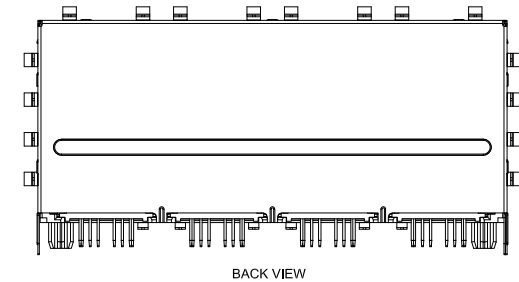


MECHANICAL :



Metal Shell : Copper Alloy, Finish: 30u" Nickel
 Housing : Thermoplastic, LCP, UL 94V-0, Black
 Insert : Thermoplastic, LCP, UL 94V-0, Black
 Contact Terminal/phosphor Bronze
 6u" Gold on Contact Area, 100u" Tin on Solder,
 Both over 50u" Nickel Under-Plated
 Coil Base : Henolic, PF2A5-151J, UL 94V-0, Black
 Terminal/Copper Alloy T=0.40X0.40mm Thickness

Meets or exceeds IEEE 802.3 standard for 10/100 Base-TX
 350uH minimum OCL with 8mA Bias current
 Available with or without LEDs
 Minimum 1500Vrms isolation per IEEE802.3 requirement
 Operating temperature 0°C to +70°C
 Storage temperature -40°C to +85°C



RoHS Compliant

TOLERANCES ARE

MORETHANALL
 PCB CONNECTORS
 Cable ASSEMBLIES

DRAWING BY CY

X. ± 0.30

CHECKED BY GENIUS

.X ± 0.25

UNIT / mm

SCALE 1 : 1

.XX ± 0.15

.XXX ± 0.075

DATE

ANG ±

SIZE A4

PPOJECTION

照片框

ORDER INFORMATION

MJF25T56ULB4-KF06A4GY-0808

SERIES

8P8C

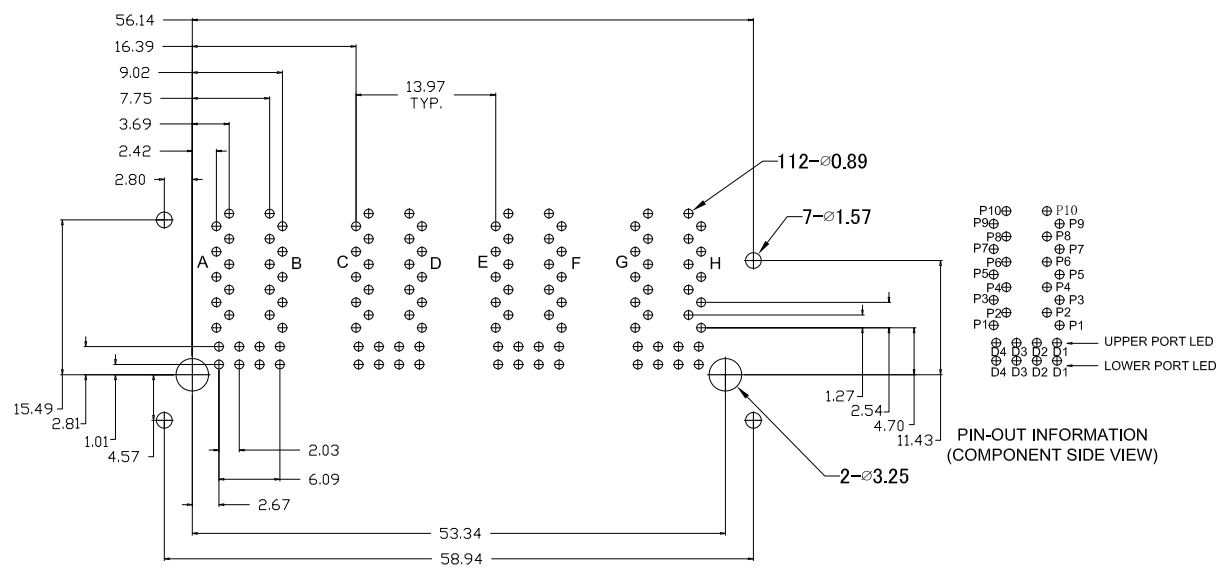
BLACK

LED2,4 GREEN / YELLOW
 LED1,3 GREEN / YELLOW
 FRONT TAB 4.57mm
 GOLD 6u"
 FULL SPRING

煜倫股份有限公司

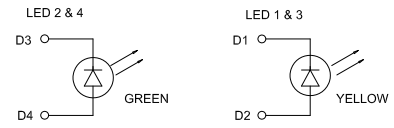
www.morethanall.com

DESCRIPTION: RJ45 Connector With Transformer 100Base Tab-up 2x4 Port with LED



- P10⌀ P10
 - P9⌀ P9
 - P8⌀ P8
 - P7⌀ P7
 - P6⌀ P6
 - P5⌀ P5
 - P4⌀ P4
 - P3⌀ P3
 - P2⌀ P2
 - P1⌀ P1
 - D4⌀ D4
 - D3⌀ D3
 - D2⌀ D2
 - D1⌀ D1
- UPPER PORT LED
LOWER PORT LED

PIN-OUT INFORMATION
(COMPONENT SIDE VIEW)



LED 2 & 4 POLARITY			LED 1 & 3 POLARITY		
D4	D3	COLOR	D2	D1	COLOR
+	-	GREEN	+	-	YELLOW

LED ELECTRICAL / OPTICAL CHARACTERISTICS:			
COLOR	IF	VF(FORWARD VOLTAGE)	λD DOMINANT WAVELENGTH
GREEN	20mA	2.2 V	565nm
YELLOW	20mA	2.1 V	585nm

RECOMMENDED PCB LAYOUT
(COMPONENT SIDE VIEW)
TOLERANCE:±0.05

RoHS Compliant

TOLERANCES ARE



DRAWING BY CY		X. ± 0.30
CHECKED BY GENIUS		.X ± 0.25
UNIT / mm	SCALE 1 : 1	.XX ± 0.15
DATE		.XXX ± 0.075
		ANG ±

煜倫股份有限公司

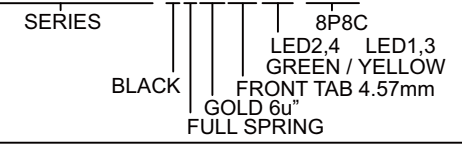
www.morethanall.com

SIZE A4 PROJECTION



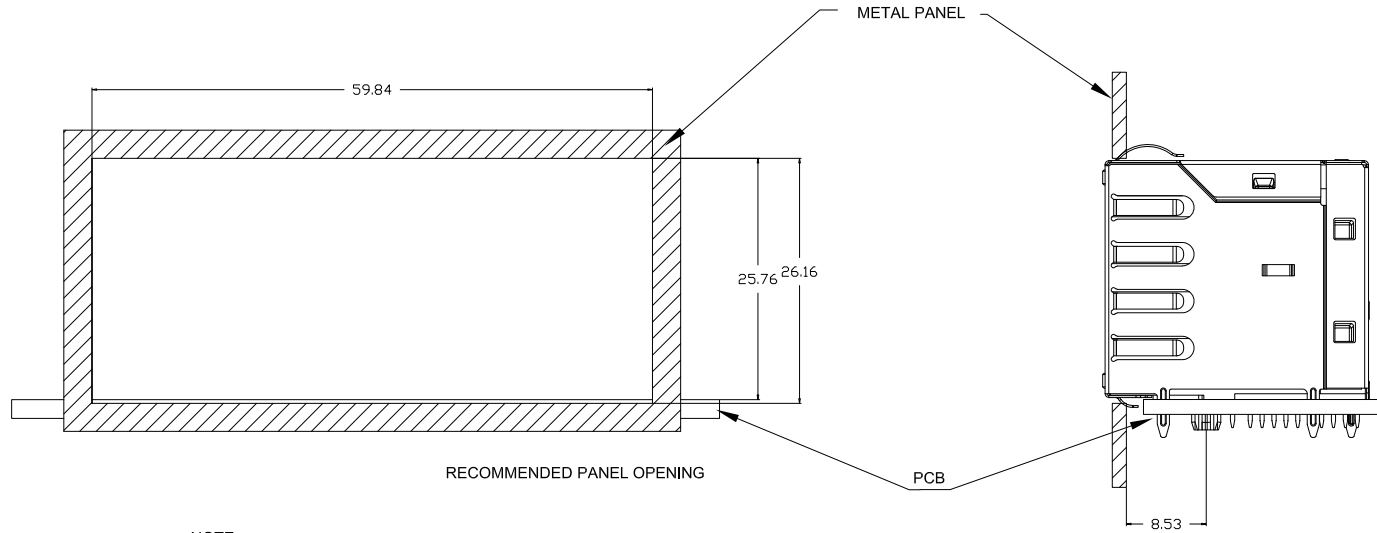
ORDER INFORMATION

MJF25T56ULB4-KF06A4GY-0808



DESCRIPTION: RJ45 Connector With Transformer 100Base Tab-up 2x4 Port with LED

SUGGESTED PANEL OPENING



NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION.
 IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

RoHS Compliant

TOLERANCES ARE

MORETHANALL
 PCB CONNECTORS
 Cable ASSEMBLIES

DRAWING BY CY

X. ± 0.30

CHECKED BY GENIUS

.X ± 0.25

UNIT / mm

SCALE 1 : 1

.XX ± 0.15

.XXX ± 0.075

DATE

ANG ±

照片框

ORDER INFORMATION

MJF25T56ULB4-KF06A4GY-0808

SERIES

BLACK

GOLD 6u"
 FULL SPRING

8P8C

LED2,4 LED1,3
 GREEN / YELLOW
 FRONT TAB 4.57mm

煜倫股份有限公司

www.morethanall.com

SIZE A4

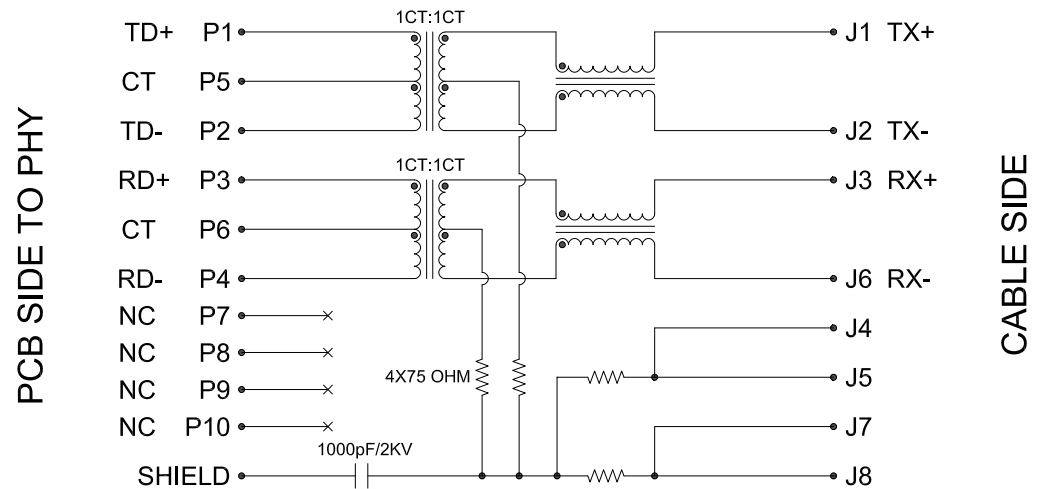
PPOJECTION

DESCRIPTION: RJ45 Connector With Transformer 100Base Tab-up 2x4 Port with LED

ELECTRICAL SPECIFICATIONS@25°C UNLESS OTHERWISE NOTED:

1. Turn Ratio(+/-2%):1CT:1CT
2. Inductance OCL:
350uH Min @100KHz 0.1V DC Bias 8mA
3. Insertion Loss:
-1.0dB Max @1-100MHz
4. Return Loss:
-20dB Min @1-10MHz load 100Ω
-18dB Min @10-40MHz load 100Ω
-14dB Min @40-60MHz load 100Ω
-12dB Min @60-80MHz load 100Ω
5. Cross talk:
-40dB Min @1-30MHz
-35dB Min @30-60MHz
-30dB Min @60-100MHz
6. Common Mode Rejection:
-30dB Min @1-100MHz
7. HIPOT TEST:1500Vrms 1mA.Max

SCHEMATIC:



煜倫股份有限公司

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RoHS Compliant

DRAWING BY CY

CHECKED BY GENIUS

UNIT / mm

SCALE 1 : 1

DATE

SIZE A4

TOLERANCES ARE

X. ± 0.30
.X ± 0.25
.XX ± 0.15
.XXX ± 0.075
ANG ±

PPOJECTION

照片框

ORDER INFORMATION

MJF25T56ULB4-KF06A4GY-0808

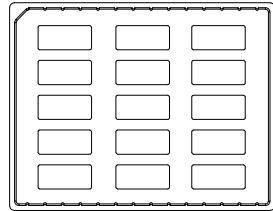
SERIES

8P8C

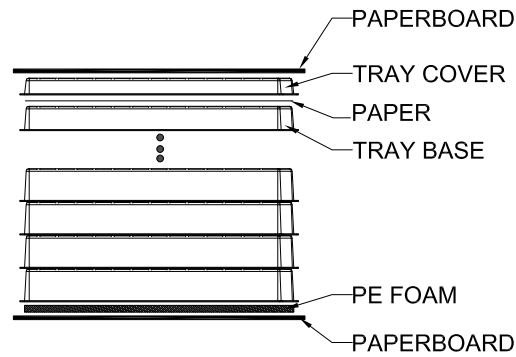
BLACK | LED2,4 | LED1,3
GREEN / YELLOW
FRONT TAB 4.57mm
GOLD 6u"
FULL SPRING

DESCRIPTION: RJ45 Connector With Transformer 100Base Tab-up 2x4 Port with LED

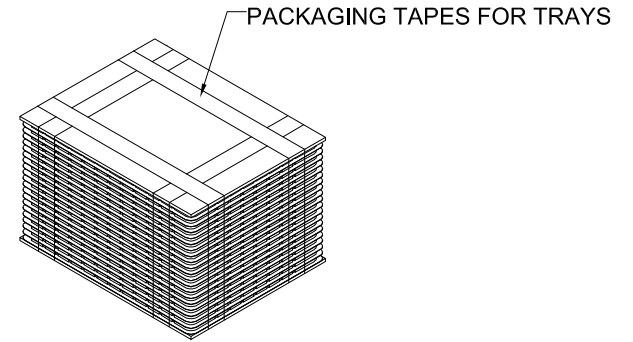
PACKAGE INFORMATION AND LABEL



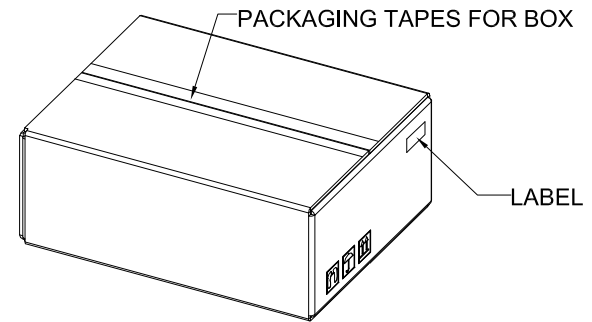
1. 15 PCS PRODUCTS IN TRAYS



2. 5PCS TRAYS OVERLAY



3. LABEL & PACKAGING TAPES FOR TRAYS:



4. LABEL & PACKAGING TAPES FOR BOX

PACKAGING LISTS	
ITEM	Q'TY
PRODUCT	75 PCS
TRAY COVER	5 PCS
TRAY BASE	5 PCS
PAPER	5 PCS
PE FOAM	1 PCS
BOX(L340*W265*H200MM)	1 PCS
LABLE	1 PCS
PACKAGING TAPES	8 M (ABOUT)

RoHS Compliant

TOLERANCES ARE

MORETHANALL
PCB CONNECTORS
Cable ASSEMBLIES

煜倫股份有限公司

www.morethanall.com

DRAWING BY CY

CHECKED BY GENIUS

UNIT / mm

SCALE 1 : 1

DATE

SIZE A4

X. ± 0.30
.X ± 0.25
.XX ± 0.15
.XXX ± 0.075
ANG ±

PPOJECTION

照片框

ORDER INFORMATION

MJF25T56ULB4-KF06A4GY-0808

SERIES

BLACK | | | | 8P8C
LED2,4 LED1,3
GREEN / YELLOW
FRONT TAB 4.57mm
GOLD 6u"
FULL SPRING

DESCRIPTION: RJ45 Connector With Transformer 100Base Tab-up 2x4 Port with LED

RJ45网络连接器的产品规格书

RJ45MODULARJACKSPRODUCTSPECIFICATION

1.0.SCOPE(范围)

本规格书涵盖了 RJ45网络连接器的外观、电气测试等品质通用要求与检测方法。

This product specification covers performance, tests and quality requirements and methods for RJ45 connector.

2.0.APPLICABLE DOCUMENTS适用文件

下列文件详述本产品的规定及规范。除另有规定外，以该文件版本为最新。在此之间的规范和产品图纸的要求发生冲突时，以产品图纸为准。在此之间的规范和参考文件的要求发生冲突时，以本规范为准

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of the specification and the product drawing, the product drawing shall take precedence.

In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

2.1测试程序 Test Procedure

- RJ45连接器正向力 (Normal Force) 测试指示
- RJ45连接器插头与插孔动态/静态保持力测试指示
- RJ45连接器接触电阻测试指示

2.2工业标准 Industry Standards

- ANSI X3.263:信息技术——光纤分布式数据接口 (FDDI) 与使用双绞线作为物理层媒介(TP-PMD)的令牌网
ANSI X3.263: Information Technology - Fiber Distributed Data Interface (FDDI) -Token Ring Twisted Pair Physical Layer Medium Dependent (TP-PMD)
- EIA/TIA-568-B.2: 商业建筑电讯电缆标准——第 2部分: 平衡式双绞线线缆组件
EIA/TIA-568-B.2: Commercial Building Telecommunications Cabling Standard - Part 2: Balanced Twisted Pair Cabling Components
- IEEE 802-3: 局域网: 载波监听多路访问/冲突检测 (CSMA/CD) 访问方式和物理层规格
IEEE 802.3: Local Area Networks: Carrier Sense Multiple Access With Collision Detection (CSMA/CD) Access Method and Physical Layer Specification
- EIA-364: 包含环境分级的电子连接器和插孔的测试方法
EIA-364: Electrical Connector/Socket Test Procedures Including Environmental Classifications
- FCC Part68: 连接电话的终端设备, 连接器规格
FCC Part 68: Connection of Terminal Equipment to the Telephone, Connector Specifications

3.0.REQUIREMENTS 要求:

3.1 一般规格 General Specification

3.1.1 额定电流 Current Rating:1.5A DC /Contact, 20mA DC for LED signals

3.1.2 额定电压 Voltage Rating:125V AC /Contact, 2.0 volts DC for LED signals

3.1.3 工作环境 Operating Environment

工作温度 Operating Temperature: 0°C~+70°C

湿度 Humidity: 20~70%

3.1.4 储存环境 Storage Environment

温度 Temperature: -40 to + 85 °C

湿度 Humidity: 20%~70%

3.1.5 测试环境 Test Environment

温度 Temperature: +20°C~+30°C

湿度 Humidity: 25%~65%

大气压 Atmospheric Pressure: 86-106KPA

3.2 材料规格 Material Specification

3.2.1 塑胶主体 Housing :热塑性材料,阻燃等级 UL94V-0, (Thermo-plastic, UL94V-0.)

塑胶盖子 Cover : 热塑性材料,阻燃等级 UL94V-0, (Thermo-plastic, UL94V-0.)

端子 Contact : 铜合金 Alloy Copper

外壳 Shield : 铜合金 Alloy Copper

如客户指定材料, 则请参考所附客户图

Please refer to the customer drawing when customer has specified

3.2.2 产品尺寸及电镀 Product dimensions and plating:

请参考产品图纸或物料编码原则

Please refer to the product drawing or product numbering code

3.2.3 产品需要满足环境有害物质管理要求

The hazardous substance should be compliant to requirement about HSF

3.3. 外形尺寸 Dimension

See applicable product drawing 参考产品图面

3.4 性能与测试描述 Performance and Test Description

本类型产品能够满足表 1 所列的电性能、机械性能和环境要求。除非特别指明, 否则所有测试均应当按照 EIA-364 规定环境条件中进行。

Product is designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. Unless otherwise specified, all tests shall be performed at ambient environmental conditions per EIA-364.

3.5 测试要求和方法汇总（表 1） Test Requirements and Procedures Summary （Table 1）

产品外观 PRODUCT APPEARANCE			
项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	产品外观 Examination of Product	Visual and dimensional inspection per product drawing. EIA-364-18B EIA-364-18B 肉眼观察, 产品外形必须符合图纸要求。	Meet requirements of product drawing and dimensional requirements of FCC Part 68, Subpart F, Connector Specification per Figure 68.500(d)(2)(i) 8 Position Series Modular Jack. 产品外观良好, 无外观不良情形, 产品结构及尺寸亦须符合图纸设计要求。
2	电镀膜厚测试 Plating Thickness Measurement	Inspect plating thickness using X-ray evaluation. EIA-364-48A, Method C EIA-364-48A, 方式 C 肉眼观察电镀层外观并使用适当的仪器设备进行膜厚测试。	Meet plating requirements defined in customer drawing 电镀层须良好, 无外观不良情况, 电镀膜厚测试须满足设计或图纸需求。

电气特性 ELECTRICAL PERFORMANCE			
项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	接触电阻 Low Level Contact Resistance	Subject mated contacts assembled housing to 20 mV maximum 100 mA .Measured from plug side to PCB side. EIA-364-23C EIA-364-23C 组装好的端子施以最大电压 20mV 最大电流 100mA 从端口处到 PCB 端测试。	30 mΩ MAX (Initial) 50 mΩ MAX (Final) See notes e 初始态最大 30 mΩ 最终态最大 50 mΩ 见备注 e.
2	绝缘阻抗 Insulation Resistance	Mated connectors with 500±10% VDC between adjacent contacts or ground. EIA-364-21C EIA-364-21C 对组装好的独立端子或接地物之间施以 500±10% VDC 的电压测试。	500MΩ MIN (Initial) 500MΩ MIN (Final) 初始态最小 500MΩ测试后最小 500MΩ
3	温升测试 Temperature Rise	Measure the temperature rise of the contact at 1.5 A AC rated current, 4 hours later under 25°C , 101kPa atmospheric pressure. EIA-364-70B, Method 1 EIA-364-70B, 方式 1 在 25 摄氏度室温, 1 个大气压的环境下, 通过 1.5A 交流电流, 持续 4 小时后测定其温度上升值。	Temperature rise: 30°C max.. 温度上升最大: 30°C

4	耐压 Dielectric Withstanding Voltage	Mated connectors with 1500±5% VAC for 1 minute 1 mA between adjacent contacts or ground. EIA-364-20C EIA-364-20C 对组装好的独立端子或接地物之间施加交流 1500VAC 1mA 电流 1 分钟。	One minute hold with no breakdown or flashover. 不能有如跳电、击穿、破裂损坏。
5	LED 功能测试 LED Functional Test	Activate LEDs at application current and voltage. 根据产品图纸要求加载适当的电流和电压激活 LED。	When LEDs are present, all LED colors illuminate and meet visual requirements. 包含 LED 的产品, 点亮 LED 时, 所有 LED 正常发光且符合视觉要求。

机械性能 MECHANICAL PERFORMANCE

项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	可焊性 Solder ability	Subject specimens to steam aging prior to solderability, per category 3. Solder type and temperature shall be in accordance with the intended method of mounting the product. If not specified, use RMA or R type solder flux prior to solderability test. Then immerse the solder pin into the solder bath at Solder Temp: 245°C±5°C, 3 ±0.5S. EIA-364-52, Category 3. EIA-364-52, 种类 3. 在测试可焊性之前对样品按照种类 3 进行蒸气老化处理。焊接方法和温度应当与装贴产品所希望的方法一致。假如未指定, 则按如下条件: 将端子脚浸入 RMA 或 R type 的助焊剂中(5-9)秒,然后将端子脚浸入 245°C ± 5°C 的锡炉中 3 ± 0.5 秒。	Solderable area shall have a minimum of 95% solder coverage 沾锡面积 95%以上, 无针孔
2	耐焊性 Resistance to Soldering Heat	Select below test item according to customer application condition. 1.Wave soldering Place the connector on the P.C. Board, then immerse the solder pin up to the surface of the board in the solder bath at Solder Temp: 260±5°C, 10S max. 3. IR Reflow Place the connector on the P.C. Board, then pass through the reflow oven. Temperature profile refers to customer drawing. EIA-364-56D, Condition B. EIA-364-56D, 条件 B. 依客户制程要求选择以下测试方法: 1.波峰焊制程将连接器置于 PC 板上,然后将露出 PC 板表面的 PIN 脚部分浸入锡炉中锡炉温度: 260±5°C, 不超过 10 秒。2.回流焊制程将连接器至于 PC 板上, 过回流焊炉。温度条件参考客户图纸。	1. Shall maintain electrical and mechanical functionality. 2. Shall meet visual requirements and be free of warpage that would prevent installation in customer's system. 3. LEDs (if applicable) shall be functional with no damage to the lens. 1. 塑胶不得有明显的变形或损坏而影响客户装板; 2. 电气和机械特性必须符合规格。 3. 对于包含 LED 的产品, 点亮 LED 时, 所有 LED 正常发光且符合视觉要求。

3	插拔力 Mating and Un-mating Force	Mating connectors at maximum rate 25.4millimeters/minute and measure the Insertion and Extraction force . EIA -364-13D EIA -364-13D 测试组装好之连接器在每分钟 25.4 毫米/分钟的速度下之插入力和拔出力。	30N Max 最大 30 牛顿 瞬断测试 IEC-60603-7-5
4	耐久性 Durability	Operation Speed: 10 to 20 cycle/min. Durability Cycles: 750 Cycles EIA -364-09C EIA -364-09C 测试速度: 每分钟 10 到 20 个循环测试次数: 750 Cycles Min	Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2) 测试后满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。
5	振动 Vibration	Subject mated specimens to 3.10 G's rms between 20 to 500 Hz. 90 minutes in each of 3 mutually perpendicular planes. See note d EIA-364-28E, Test Condition VII, Condition D EIA-364-28E, 测试条件 VII, 条件 D 在 20Hz-500Hz 范围内对插接好的样品施加 3.10G 有效值的随机振动, 并在 3 个相互垂直的平面上对每一个面保持 90 分钟..注 d	1. No electrical discontinuity greater than 1 u sec. 2. Loosen, crack and breakage of the plastic part and other detrimental damage shall not be observed. 1.电气上不能有超过 1 微秒 (百万分之一秒) 断讯的情形; 2.塑胶件不能有松脱、破损或其他损坏。
6	正向力 Normal Force	Mating connectors and measure the force of the contact area, using an FCC compliant modular plug. EIA-364-04 EIA-364-04 测试组装好公母头端子接触点之力, 使用 FCC 标准之插头。	100 gram force minimum 100 克力最小
7	机械冲击 Mechanical Shock	Subject mated specimens to 50 G's half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction applied along 3 mutually perpendicular planes, 18 total shocks. See note d EIA-364-27B, Method A. EIA-364-27B, 方式 A. 重力加速度: 490m/s ² (50G) 波形: 半正弦波, 持续时间: 11msec 冲击次数:3 个轴 6 个面,每面 3 次共 18 次。见备注 d	1. Loosen, crack and breakage of the plastic part and other detrimental damage shall not be observed. 2. No electrical discontinuity greater than 1 u sec. 1. 塑胶件不能有松脱、破损或其他损坏; 2. 电气上不能有超过 1 微秒 (百万分之一秒) 断讯的情形发生)。

8	插头对插孔的静态保持力 Static pull, plug retention to jack, operational	<p>Subject specimens to specified force with plug mated in jack and latch engaged. Cable will pull at 45 degree angle from normal hanging axis. Force shall be applied and held for 60 seconds in each of 4 directions with force removed between each direction. Four directions will be toward latch, away from latch, and lateral to latch on each side. Plug used shall be 5.89mm (0.232 inch) overcrimped plug. EIA-364-98 EIA-364-98 在插头插入插孔并卡紧的情况下对样品施加指定大小的力。该力将线缆由正常的悬垂轴拉至 45 度角位置,并在 4 个互不相邻方向的每一方向上都分别保持 60 秒。这 4 个方向分别是超向卡槽 (Latch) 方向、正对卡槽方向以及卡槽两侧方向。插头规格为弹针压入深度为 5.89 毫米 (0.232 英寸)。</p>	<ol style="list-style-type: none"> 1. 53.4 N [12 lbf] minimum. 2. Show no evidence of physical damage to the jack, plug shall not disengage from the jack. 3. Specimens shall be free of any traffic discontinuities during the test. <ol style="list-style-type: none"> 1. 最小 53.4 牛顿 (12 磅力) 2. 插孔无明显机械损伤,插头未脱离插孔; 3. 电气上不能有超过 0.1 微秒断讯的情形发生。
9	瞬断测试 Electrical Discontinuity Test (插头对插孔的动态保持力 Dynamic pull, plug retention to jack, operational)	<p>Subject specimens to specified force with plug mated in jack and latch engaged. Cable will pull at 45 degree angle from normal hanging axis. Weighted end of cable to be rotated through 360 degrees at a rate of 4 RPM for 3 total revolutions. Process will be repeated with 5.89mm (0.232 inch) overcrimped plug, then 6.02mm (0.237 inch) nominal plug, then 6.27mm (.247 inch) undercrimped plug. See Note c and d EIA-364-98 EIA-364-98 在插头插入插孔并卡紧的情况下对负重自然悬垂的样品施加指定大小的力。该力将线缆由正常悬垂轴拉至 45 度角位置,并使负重线缆以 4RPM 的速率连续旋转 360 度 3 圈。这一过程需分别采用弹针压入深度为 5.89 毫米 (0.232 英寸)、6.02 毫米 (0.237 英寸) 和 6.27 毫米 (0.247 英寸) 的插头重复实验。见备注 c 和 d</p>	<ol style="list-style-type: none"> 1. 33.34 N (7.5 lbf) min. 2. Show no evidence of physical damage to the jack, plug shall not disengage from the jack 3. Specimens shall be free of any traffic discontinuities during the test. <ol style="list-style-type: none"> 1. 最小 33.34 牛顿 (7.5 磅力); 2. 插孔无明显机械损伤,插头未脱离插孔; 3. 电气上不能有超过 0.1 微秒断讯的情形发生。
环境特性 ENVIROMENT PERFORMACE			

项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	冷热冲击 Thermal Shock	<p>Solder each of the plug and receptacle connector to the P.C. Board, then mate them together, and expose them to the following environmental condition. Temperature : $-55^{\circ}\text{C} \pm 3^{\circ}\text{C}$ (30 min.) standard atmospheric condition (10-15 min.) $\rightarrow 85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ (30 min.) \rightarrow standard atmospheric condition (10-15 min.) Transition time : 5 min. max. Number of exposure : 5 cycles It shall be subjected to standard atmospheric condition for 1 to 2 hours, after which the specified measurements shall be made. EIA -364-32D, Method A, Test condition I</p> <p>EIA -364-32D, 方式 A, 测试条件 I 将公母座连接器各自焊接于 PC 板上,后将其对插再暴露在下述条件中) 温度:置于 $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$,30 分钟再转换至标准大气条件 10~15 分钟) 再转换到 $85^{\circ}\text{C} \pm 3^{\circ}\text{C}$,30 分钟再转换至标准大气条件 10~15 分钟) 转换时间:最长 5 分钟) 暴露次数:5 次物品应置于标准大气条件中 1~2 小时后再进行测量动作。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>
2	温度寿命 Temperature Life	<p>Mated connectors and expose to 85°C for 500 hours, Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. EIA-364-17B Method A, Test Condition 3, Test Time Condition C.</p> <p>EIA-364-17B, 方式 A, 测试条件 3, 时间条件 C. 先在温度为 $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 环境中放置 500 小时,取出于常湿常温中放置 1~2 小时后, 测试接触阻抗。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>
3	耐寒性 Low Temperature	<p>Mated connectors and expose to $-55 \pm 3^{\circ}\text{C}$ for 96 hours, Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. EIA-364-59A</p> <p>EIA-364-59A 先在温度为 $-40 \pm 3^{\circ}\text{C}$ 环境中放置 96 小时, 取出于常湿常温中放置 1~2 小时后测试接触阻抗。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>

4	耐湿性 Humidity	<p>At a temperature of $40\pm 2^{\circ}\text{C}$ and relative humidity of 90% - 95% for 96 hours. Then, be left alone for 1 to 2 hours in a room ambient and test in the time. EIA-364-31B, Method I, Test condition A</p> <p>EIA-364-31B, 方式 I, 测试条件 A 温度 $40\pm 2^{\circ}\text{C}$,湿度 90% - 95%, 测试 96 小时, 测试后置于室温下 1~2 小时测试其它项目。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>
5	盐雾测试 Salt spray	<p>Tested as below: Temperature: $(35\pm 2)^{\circ}\text{C}$ Humidity: $(95\text{---}98)\%$ (R.H.) PH: 6.5—7.2 Duration: $X\leq 1\text{u}''$:8H; $1\text{u}'' < X < 3\text{u}''$:12H; $3\text{u}''\leq X < 15\text{u}''$:24H; $15\text{u}''\leq X < 30\text{u}''$: 48H $X = 30\text{u}''$: 72H $X = 50\text{u}''$: 96H It shall be subjected to standard atmospheric condition 1 hour after removing the salt deposits. It should meet the contact resistance. Object non-contact area: Temperature: $(35\pm 2)^{\circ}\text{C}$ Salt-solution $(5 \pm 1)\%$. EIA -364-26B</p> <p>EIA -364-26B 测试条件如下: 温度: $(35\pm 2)^{\circ}\text{C}$; 湿度: $(95\text{---}98)\%$; PH 值: 6.5—7.2; 持续时间: $X\leq 1\text{u}''$:8 小时; $1\text{u}'' < X < 3\text{u}''$:12 小时; $3\text{u}''\leq X < 15\text{u}''$:24 小时; $15\text{u}''\leq X < 30\text{u}''$: 48 小时; $X = 30\text{u}''$: 72 小时; $X = 50\text{u}''$: 96 小时; 物体在移出盐水槽后应置于标准大气条件中一个小时后再进行测量动作; 待测品非接触部位测试条件: 温度: $(35\pm 2)^{\circ}\text{C}$, 盐水密度: $(5 \pm 1)\%$</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>

3.6 可靠性测试顺序 (表 2) Product Qualification Test Sequence (Table 2)

测试或检查 Test or Examination	测试群组 Test Group (a)										
	A	B	C	D	E	F	G	H	I	J	
	测试顺序 Test Sequence										
产品外观 Examination of product	1,3	1,5	1	1,5	1,4	1,12	1,10	1,6	1,10	1,5	
接触阻抗 Low Level Contact Resistance						2,4,6	2,4,6	2,4	2,4,6	2,4	
绝缘阻抗 (Insulation Resistance)						8			8		
温升测试 (Temperature Rise)	2										
耐压 Dielectric Withstanding Voltage						9			9		
LED 功能测试 (LED functional Test)		4		4		7	9	5	7		
可焊性 (Solder ability)		2									
耐焊性 (Resistance to Soldering Heat)		3(f)									
插入力 (Mating Force)						10	7				
拔出力 (Unmating Force)						11	8				
耐久性 (Durability)						3(h)	3(h)		3		
正向力 (Normal Force)			2								
振动 (Vibration)				2							
机械冲击 (Mechanical Shock)				3							
插头与插孔静态保持力 (Plug Retention Force To Jack)					3						
插头与插孔动态保持力(Dynamic pull, plug retention to jack, operational)					2(c)						
冷热冲击 (Thermal Shock)						5					
耐高温性 (Temperature Life)							5				
耐寒性 (Low Temperature)								3			
耐湿性 (Humidity)									5		
盐雾 (Salt Spray)										3	

备注 Notes :

(a). Each group with 3 pcs specimens for product which is equal to or more than 4 ports; 5 pcs specimens for product which is less than 4 ports.

4Ports 以上(含 4 Ports) 的产品，每个群组的测试样品为 3PCS, 4Ports 以下的产品，每个群组的测试样品为 5PCS。

(b). Subject specimens for UV test if they are color samples, time length one week. 如果是彩色样品，必须做紫外线试验，周期一个星期

(c): Dynamic pull, plug retention to jack, operational (Electrical Discontinuity Test) 插头与插孔动态保持力(俗称瞬断测试)测试方法

1. Place the connector under test into the holder, and insert the RJ45 plug into the connector;将待测连接器固定于测试夹具内，插入 RJ45 测试公端；
2. Adjust the speed controller to 4RPM; 调整调整器至 4RPM；
3. Adjust the arm, fix the angle of the weight cable to perpendicular line from the center of the connector to 45 degree; 调整力臂长度，待测连接器中心垂直线与 WEIGHT CABLE (线) 夹角为 45 度；
4. Apply total of 7.5 LBS weight on the weight holder; 加载 7.5 LBS 重量砝码；
5. Turn on the switch to rotate the rotator arm 6 complete revolutions at the speed of 4 RPM; 启动开关，以 4 RPM 速度旋转六周(顺逆方向交替旋转各三周)；
6. During the test: I. No electrical discontinuity greater than 0.1u sec.
II. Loosen, crack and breakage of the plastic part and other detrimental damages shall not be observed.测试过程中： I. 电气上不能有超过 0.1 微秒断讯的情形
II. 塑胶件不能有松脱破损或其他损坏

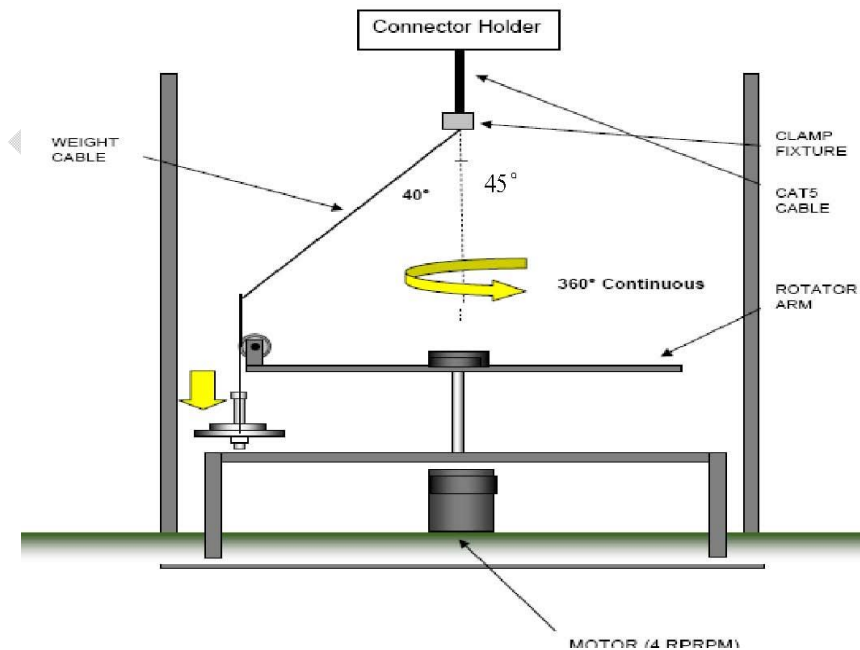
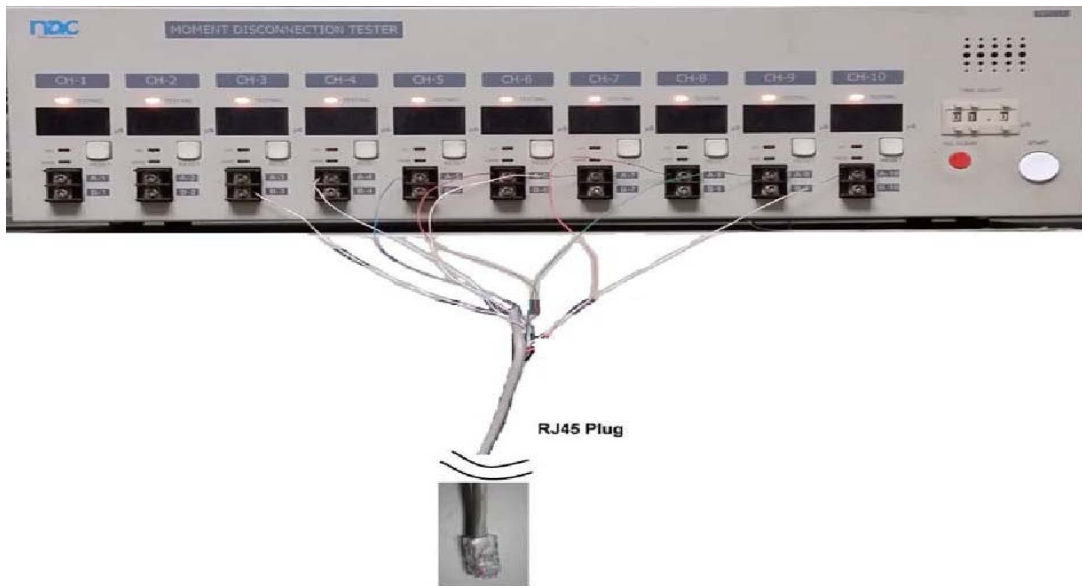


Figure 1
图示 1

7. Process will be repeated with 6.27mm [0.247 inch] undercrimped plug, 6.02mm [0.237 inch] nominal plug and 5.89mm [0.232 inch] overcrimped plug. 测试过程分别采用弹针压入深度为 5.89 毫米（0.232 英寸）、6.02 毫米（0.237 英寸）和 6.27 毫米（0.247 英寸）的插头重复试验。

(d): Discontinuity Monitoring connections for monitor 瞬断仪连接示意图



Discontinuity Monitoring Tester
Figure 2 图示 2

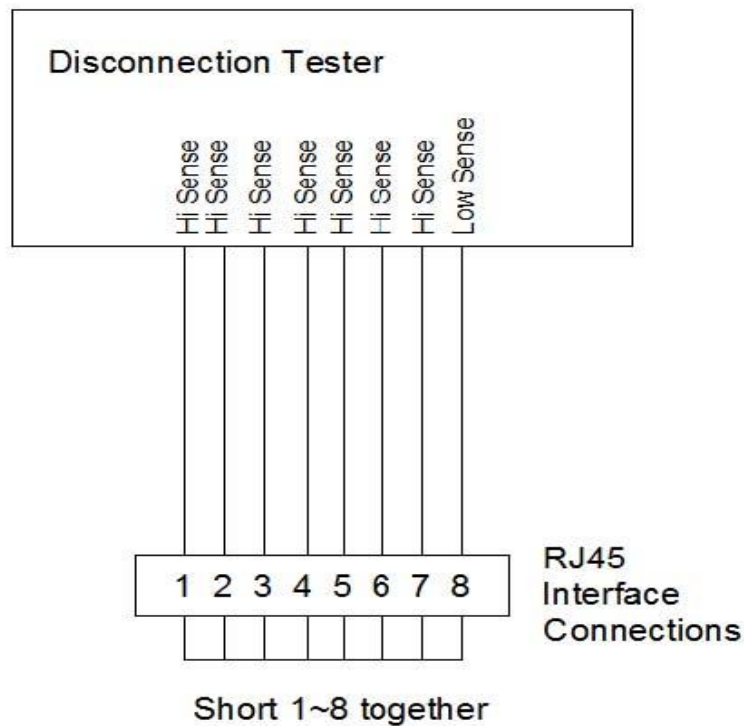


Figure 3 图示 3
Diagram shows connections for RJ Modular Jack (No transformer)

Discontinuity Monitoring for Vibration, Mechanical Shock, Dynamic pull and Static pull Plug and Jack Retention Forces.

(e): LLCR does not include the resistance of cable and internal resistance of contact wire, if have to include the resistance of cable and internal resistance of contact wire, the Initial value shall be 30mΩ. Or, to specify the variation as $\Delta 30\text{m}\Omega$ before and after experiment.

接触电阻的规格值（20mΩ initial）不包含水晶头和连接器端子的本身内阻，假如包含水晶头和连接器端子的内阻，则初始值设定为 30mΩ 较为合适。或者，仅仅考虑实验前后的变化量，不超过 30mΩ 即可。

(f): Do not perform “IR reflow soldering test” for wave soldering product.

对于非回流焊产品，耐焊性无需测试“回流焊”项目。

(g): Do not perform “LED functional test” for product without LED.

对于不带 LED 的产品，无需测试“LED 功能”项目，测试项目依序号顺序延续，5 变为 4，序号依次类推。

(h): Perform only 10 durability cycles. 执行 10 个循环的耐久测试。

(l): Since discontinuity test has been done during the random vibration and mechanical shock test, so it depends on the situation whether need to do the contact resistance or DCR test after random vibration and mechanical shock test.

机械冲击测试后是否需要接触电阻或直流电阻测试，视情况决定，因为在振动和机械冲击测试的过程中已有信号瞬断测试。

4. 品质保证方案 Quality Assurance Provisions

4.1 Qualification Testing 规格承认测试

4.1.1 Specimen Selection 样品选择

Specimens shall be prepared in accordance with standard production methods and shall be prepared as they would be for normal applications.

样品制备应当按照标准的产品生产方法并能满足一般应用场合。

Notes: Test boards for mounting the specimens shall not short the signal pins to each other and shall leave the signal pins in an open state for electrical screening tests. Test boards for mounting the specimens shall be of a thickness to allow access to signal pins for attaching electrical probes during electrical screening tests.

备注: 用于装配及固定样品的测试板不能使信号脚位相互间短路，同时需要确保信号脚位相互间处于开路状态以进行电屏蔽测试。测试板厚度应该保证在电屏蔽测试中信号脚位能够连接额外的电极探针。

4.1.2 Test Sequence 测试顺序

Qualification inspection shall be verified by testing specimens as specified in Figure 2.

规格承认测试时应当按照表 2 指明的顺序检验样品。

4.2. Requalification Testing 规格重新承认测试

If changes significantly affecting form, fit or function are made to the product or manufacturing process, product assurance shall coordinate requalification testing, consisting of all or part of the original testing sequence as determined by development/product, quality and reliability engineering.

如果产品设计或制作过程中存在影响外观、安装和功能的重大更改，产品应当进行规格重新承认测试以保证品质，视产品设计、品质和可靠性要求对产品进行全部或者对原始测试中的部分测试顺序进行调整。

4.3. Acceptance 可接受等级

Acceptance is based on verification that the product meets the requirements of Figure 1. Failures attributed to equipment, test setup or operator deficiencies shall not disqualify the product. If product failure occurs, corrective action shall be taken and specimens resubmitted for qualification. Testing to confirm corrective action is required before re-submittal.

经核实产品能否满足表 1 所列的要求来确定可接受等级。因设备、测试夹具或操作人员操作质量问题导致的测试失败应当不影响产品规格承认。当出现产品测试结果失败时，应当采取纠正措施并重建样品以承认规格。在重新提交样品之前必须有验证纠正措施有效性的测试。

4.4. Quality Conformance Inspection 品质一致性检查

The applicable quality inspection plan shall specify the sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with the applicable product drawing and this specification.

在相应的品质检查计划中应当指明所采用的样品可接受质量等级。尺寸和功能要求应当符合相应的产品图纸和本规格。

5. Recommended RJ Plug Specification (FCC)

参考 RJ45 标准水晶头 (FCC)

Note :- This plug is depicted with its full 8 contact capacity. It may be be fabricated with less than 8 contacts.

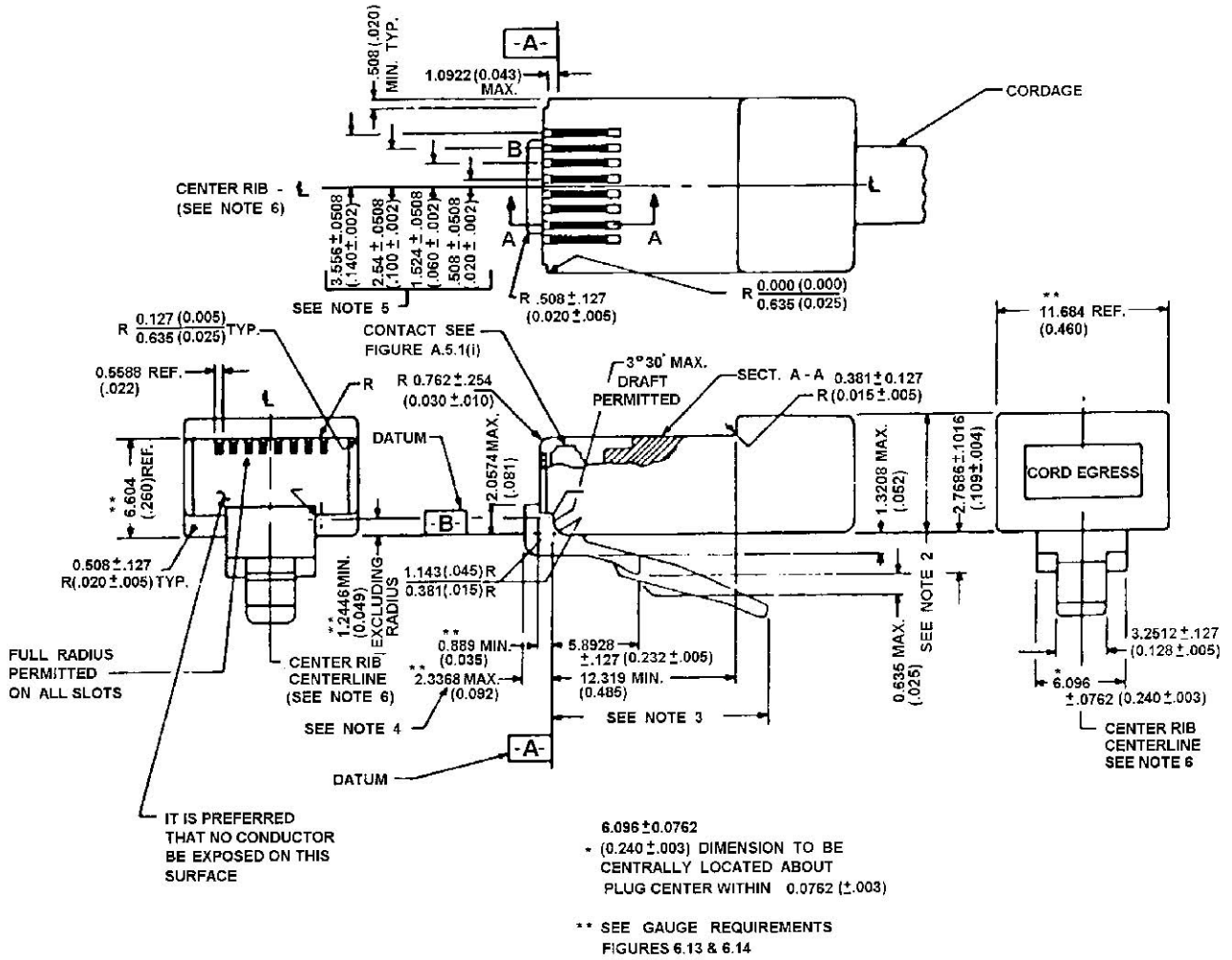


Figure 4

图 4

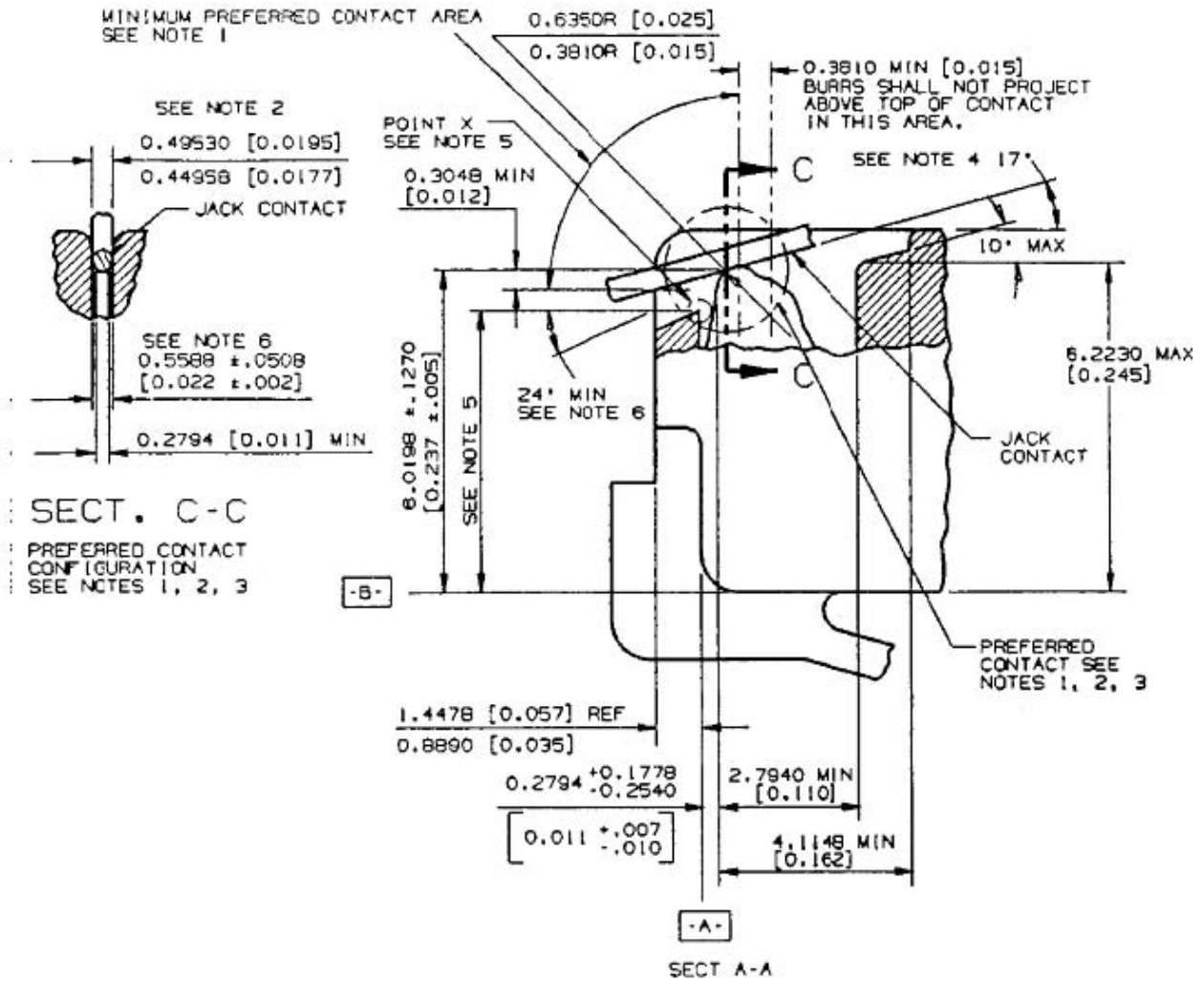
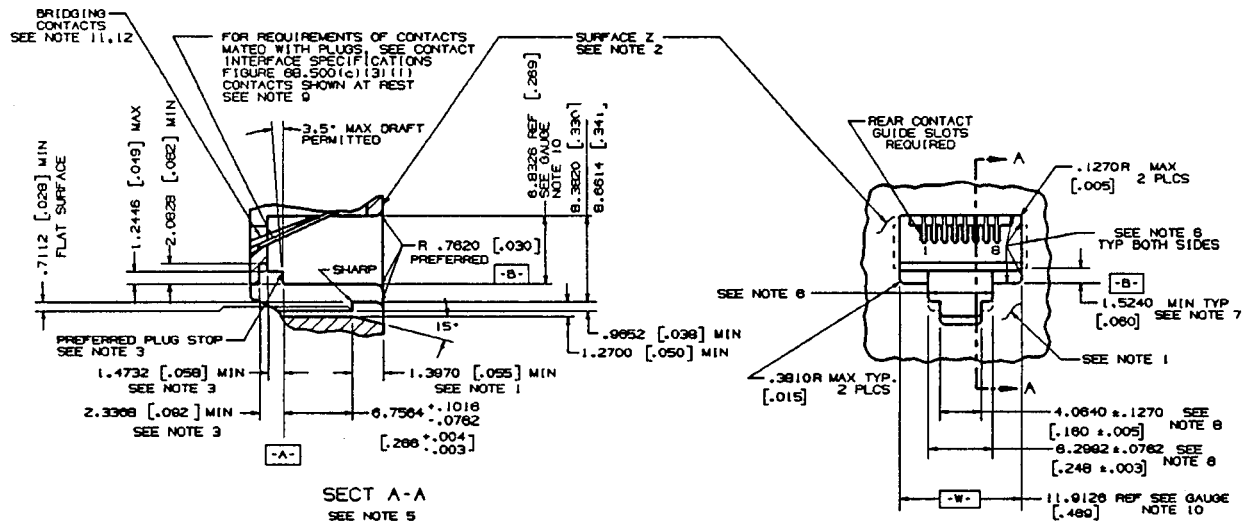


Figure 5

图 5

NOTE: THIS JACK IS DEPICTED WITH 8 CONTACTS. IT MAY BE FABRICATED WITH LESS THAN 8 CONTACTS.



NOTE: ALL NOTES FOLLOW FIGURE 68.500(d)(1)(1).

FIGURE 68.500(d)(2)(i)-B POSITION SERIES JACK, MECHANICAL SPECIFICATION

可靠性测试报告

Reliability test report

样品名称: Sample Name	RJ45 with transformer	样品料号: Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位: Sender	工程	送样日期: Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Items	接触电阻测试 contact resistance test						
测试目的 Test Purpose	确认产品接触电阻电气参数符合性 Confirm the conformity of the electrical parameters of the product contact resistance						
测试仪器 Tester	微电阻测试仪 Micro resistance tester						
测试条件 Test Conditions	组装好的端子施以最大电压20mV 最大电流 100mA, 测试接触电阻, 参考EIA-364-23C, (不包括水晶头与RJ45母座本身电阻) Maximum voltage 20mV, maximum current 100mA applied to the assembled terminals to test contact resistance, Refer to EIA-364-23C, (excluding the resistance of the Crystal head and RJ45 female jack).						
测试步骤 Test steps	1. 先测量出产品与之匹配的Plug本身的电阻值, 并记录. First measure the resistance value of the Plug itself that matches the product and record it.						
	2. 对RJ45端子本身的电阻进行测试, 并记录. Test the resistance of the RJ45 terminal itself and record it.						
	3. 将匹配的Plug与RJ45进行匹配, 设置仪器测试条件. Match the matched Plug with RJ45 and set the instrument test conditions.						
	4. 测试Plug与RJ45末端的电阻值. Test the resistance value of Plug and RJ45 end.						
	5. 将步骤4测试到的电阻值分别减去步骤1与步骤2的电阻值, 即为接触电阻. Subtract the resistance value of step 1 and step 2 from the resistance value measured in step 4 respectively, which is the contact resistance.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	≤30mΩ (Before)	12.5	13.1	12.4	11.8	12.6	PASS
	≤50mΩ (After)	16.7	17.2	16.9	16.3	16.8	PASS
测试图片 Reference Picture							

最终判定: 合格 PASSED
Final judgment

不合格 FAILED


审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Items	绝缘电阻 Insulation resistance						
测试目的 Test Purpose	确认产品绝缘电阻电气参数符合性 Confirm the conformity of the electrical parameters of the insulation resistance of the product						
测试仪器 Tester	绝缘电阻测试仪 Insulation Resistance Tester						
测试条件 Test Conditions	对组装好的独立端子或接地物之间(包括相邻两PIN之间)施以500±10% VDC 的电压1分钟后测试绝缘电阻, EIA-364-21C. Apply a voltage of 500±10% VDC between the assembled independent terminals or grounding objects (including between two adjacent PINs) for 1 minute and test the insulation resistance, EIA-364-21C.						
测试步骤 Test steps	1. 对测试仪器按测试条件进行设置, 并进行归零. Set the tester according to the test conditions and reset it to zero.						
	2. 将测试仪器高压端与接地端分别夹在产品相邻两PIN上. Clamp the high-voltage terminal and ground terminal of the tester to two adjacent PINs of the product.						
	3. 进行充电, 并待电压值达到500V后, 持续1分钟. Charge and wait for the voltage to reach 500V for 1 minute.						
	4. 记录测试值, 完成后进行放电操作. Record the test value, and perform the discharge operation after completion.						
	5. 放电操作结束后再取下产品. Remove the product after the discharge operation is over.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	≥500MΩ	PASS	PASS	PASS	PASS	PASS	PASS
测试图片 Reference Picture							

最终判定: 合格 PASSED

不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Items	耐电压 HI-POT						
测试目的 Test Purpose	确认产品耐电压强度符合性 Confirm the compliance of the product withstand voltage strength						
测试仪器 Tester	耐电压测试仪 HI-POT tester						
测试条件 Test Conditions	对组装好的独立端子或接地物之间施加 1500VDC 1mA 电流 60s, EIA-364-20C. Apply 1500VAC 1mA current for 60s between assembled independent terminals or grounding objects, EIA-364-20C.						
测试步骤 Test Steps	1. 对测试仪器按测试条件进行设置. Set the tester according to the test conditions.						
	2. 将测试仪器高压端与接地端分别夹在产品相邻两PIN上. Clamp the high-voltage terminal and ground terminal of the tester to two adjacent PINs of the product.						
	3. 启动测试, 待测试结束, 高压警示灯熄灭后即完成测试. Start the test and complete the test after the test is over and the high-voltage warning light goes out.						
	4. 测试过程无报警中断, 即代表产品测试符合要求. There is no alarm interruption in the test process, which means that the product test meets the requirements. 如测试过程中发生击穿, 飞弧, 跳火等则为不良. If breakdown, arcing, flashover, etc. occur during the test, it is not ok.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	无破裂或击穿 No rupture or breakdown	PASS	PASS	PASS	PASS	PASS	PASS
测试图片 Reference Picture							

最终判定: 合格 PASSED
Final judgment

不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Items	插拔力及寿命测试; Insertion force and life test;						
测试目的 Test Purpose	确认产品结构可靠性						
测试仪器 Tester	全自动插拔力实验机 Fully automatic insertion force tester						
测试条件 Test Conditions	<p>1. 插入力测试时以25.4mm/分钟速度; At the speed of 25.4mm/min during the insertion force test;</p> <p>2. 寿命(耐久)测试时以10-20次循环/分钟速度测试. During the life (durability) test, it is tested at a rate of 10-20 cycles/min.</p>						
测试步骤 Test Steps	1. 选择符合FCC标准之水晶头与待测试产品进行匹配组装. Select the crystal head that meets the FCC standard and the product to be tested for matching assembly.						
	2. 对自动插拔力测试机进行参数设置与数值归零. Set the parameters and reset the value of the automatic insertion force tester to zero.						
	3. 将匹配好的待测试RJ45及水晶头固定于测试仪器夹具上. Fix the matched RJ45 and crystal head to be tested on the fixture of the tester.						
	4. 再次归零仪器力值, 并启动测试, 记录测试数据. Zero the tester value again, start the test, and record the test data.						
	5. 将步骤4测试到的电阻值分别减去步骤1与步骤2的电阻值, 即为接触电阻. Subtract the resistance value of step 1 and step 2 from the resistance value measured in step 4 respectively, which is the contact resistance.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	30N Max. (mating force)	1.14	1.16	1.17	1.17	1.17	PASS
	30N Max. (un-mating)	0.86	0.89	0.86	0.92	0.94	PASS
	750times Min. (Durability)	结构及外观OK, 接触电阻小于 $\leq 30m\Omega$. The structure and appearance are OK, and the contact resistance is less than $30m\Omega$.					PASS
测试图片 Reference Picture							

最终判定:

Final judgment

合格 PASSED

不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test items	耐湿性/恒温恒湿 humidity resistance/constant temperature and humidity						
测试目的 Test Purpose	模拟在恶劣使用环境下产品结构可靠性 Simulate the reliability of product structure in harsh environments						
测试仪器 Tester	恒温恒湿箱 Constant temperature and humidity tester						
测试条件 Test Conditions	温度 $40\pm 2^{\circ}\text{C}$, 湿度90% - 95%, 测试96 小时, 测试后置于室温下1~2 小时, 测试接触电阻及相邻PIN之需电压(1500V, 1mA, 60s). Test the product in the box with temperature $40\pm 2^{\circ}\text{C}$, humidity 90%-95%, run for 96 hours, and then put it at room temperature for 1~2 hours to test contact resistance and adjacent PIN voltage (1500V, 1mA, 60s)						
测试步骤 Test steps	1. 选择未经任何测试的新样品5pcs. Choose 5pcs of new samples that have not been tested.						
	2. 将恒温箱按测试条件进行设置, 产品放入后启动恒温箱. Set the tester according to the test conditions, and start the test after the product is placed.						
	3. 恒温箱自动停止后, 取出产品, 测试接触电阻, 并记录. After the tester automatically stops, take out the product, test the contact resistance, and record it.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	30mΩ MAX. (初)	16.50	16.70	16.00	15.90	16.80	PASS
	50mΩ MAX. (始)	18.00	18.20	17.52	17.37	17.85	PASS
	1500V, 1mA, 6s	PASS	PASS	PASS	PASS	PASS	PASS
	无明显变形 No obvious deformation.	PASS	PASS	PASS	PASS	PASS	PASS
测试图片 Reference pictures	<div style="display: flex; justify-content: space-around;">   </div>						

最终判定:

Final judgment

■合格 PASSED

□不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer		样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808			
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Items	耐温实验/温度寿命 Temperature resistance test/temperature life						
测试目的 Test Purpose	模拟在恶劣使用环境下产品结构可靠性 Simulate the reliability of product structure in harsh environments						
测试仪器 Tester	恒温恒湿箱 Constant temperature and humidity tester						
测试条件 Test conditions	先在温度为85°C±2°C 环境中放置500小时, 取出于常湿常温中放置1~2小时后, 测试接触阻抗, EIA-364-17B, 方式 A, 测试条件 3, 时间条件C. Firstly put it in the tester with a temperature of 85°C±2°C for 500 hours, take it out and place it in normal humidity and room temperature for 1~2 hours, then test the contact impedance, EIA-364-17B, method A, test condition 3, time condition C.						
测试步骤 Test Steps	1. 选择未经任何测试的新样品5pcs. Choose 5pcs of new samples that have not been tested.						
	2. 将恒温箱按测试条件进行设置, 产品放入后启动恒温箱. Set the tester according to the test conditions, and start the test after the product is placed.						
	3. 恒温箱自动停止后, 取出产品, 测试接触电阻, 并记录. After the tester automatically stops, take out the product, test the contact resistance, and record it.						
测试结果 Result	项目 Item	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	30mΩ MAX. (初)	16.00	16.90	16.70	16.60	16.00	PASS
	50mΩ MAX. (始)	16.95	17.23	17.02	17.21	17.00	PASS
	无明显变形 No obvious deformation.	PASS	PASS	PASS	PASS	PASS	PASS
测试图片 Reference pictures							

最终判定:
Final judgment

合格 PASSED

不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Items	盐雾测试 Salt spray test;						
测试目的 Test Purpose	模拟在恶劣使用环境下产品结构可靠性 Simulate the reliability of product structure in harsh environments						
测试仪器 Tester	盐雾实验机 Salt spray tester						
测试条件 Test conditions	中性盐雾实验标准;溶液是PH值为6.5~7.2之间的5%的NaCl溶液, 喷雾周期为: 连续喷雾。试验温度: 35±2℃。EIA -364-26B. Neutral salt spray test standard: the solution is a 5% NaCl solution with a PH value of between 6.5 and 7.2, and the spray cycle is: continuous spray. Test temperature: 35±2℃. EIA -364-26B						
测试步骤 Test Steps	1. 选择未经任何测试的新样品5pcs. Choose 5pcs of new samples that have not been tested.						
	2. 将盐雾实验机按测试条件进行设置, 产品放入后启动喷雾测试. Set the salt spray tester according to the test conditions, and start the spray test after the product is placed.						
	3. 测试完成后, 小心取出产品, 并用软毛刷在清水内清洗产品表面. After the test is completed, carefully take out the product and use a soft brush to clean the surface of the product in clean water.						
	4. 观察产品外观(LED灯脚8小时无腐蚀, 其余零件24小时无腐蚀、变色) Observe the appearance of the product (the LED lamp pin has no corrosion for 8 hours, and the remaining parts have no corrosion or discoloration for 24 hours).						
测试结果 Result	项目 Item	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	30mΩ MAX. (初)	16.00	16.90	16.70	16.60	16.00	PASS
	50mΩ MAX. (始)	17.34	18.05	17.97	17.91	17.28	PASS
	无明显腐蚀 No corrosion on the surface of the product was observed	PASS	PASS	PASS	PASS	PASS	PASS
测试图片 Reference pictures							

最终判定:

Final judgment

合格 PASSED

不合格 FAILED

审核: Lake

测试:
Tester

Chen

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量Samples QTY.	A standard box of products		
测试项目 Test Items	机械冲击/跌落测试 Mechanical shock/drop test						
测试目的 Test Purpose	模拟在恶劣运输环境下产品结构可靠性 Simulate the reliability of product structure in harsh transportation environment						
测试仪器 Tester	N/A						
测试条件 Test Conditions	跌落高度:90CM; 次数:一角三边六面各跌落3次 Drop height: 90CM; times: drop 3 times on one corner, three lines and six sides						
测试步骤 Test Steps	<p>1. 将电气测试PASS的产品进行标准包装(一箱). Put the products which PASS in the electrical test into standard packaging (one box).</p> <p>2. 按测试条件从90CM高度自由释放整箱测试产品, 要求一角, 三边, 六面分别落地冲击各3次. According to the test conditions, freely release the whole box of test products from a height of 90CM, requiring one corner, three lines, and six sides to land and impact 3 times each.</p> <p>3. 开箱, 100%按图纸进行电气性能测试, 检查外观是否有破损及结构失效, 记录5PCS数据. Open the box and perform 100% electrical performance test according to the drawings, check the appearance damage and structural failure, and record 5PCS data</p> <p>4. 对其中5PCS数据进行记录. Record the 5PCS data.</p>						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	无破损, 结构失效 No damage, structural failure	OK	OK	OK	OK	OK	PASS
	No Open	OK	OK	OK	OK	OK	PASS
	350uH MIN	642	650	650	645	641	PASS
测试图片 Reference pictures							

最终判定:
Final judgment

■ 合格 PASSED

□ 不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer	样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808				
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test Item	圈比测试 TR test						
测试目的 Test Purpose	确保产品滤波器为初次级1:1. Ensure that the product filter is 1:1 between primary and secondary.						
测试仪器 Tester	变压器自动测试仪 Automatic transformer tester						
测试条件 Test Conditions	滤波器初次级圈数比为1:1 ±2%. The ratio of the primary to secondary turns of the filter is 1:1 ±2%.						
测试步骤 Test Steps	1. 选择未经任何测试的新样品5pcs. Choose 5pcs of new samples that have not been tested.						
	2. 对电气综合测试进行参数设置, 使判定标准符合图纸要求(圈比差小于1) Set the parameters of the electrical comprehensive test to make the judgment standard meet the requirements of the drawing (the turns ratio difference is less than 1)						
	3. 连接测试治具, 并进行测试, 查看测试实际数据. Connect the test fixture, perform the test, and view the actual test data.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	初次级圈数差小于1圈 The difference between primary and secondary turns is less than 1 turn	PASS	PASS	PASS	PASS	PASS	PASS
测试图片 Reference pictures	 <p>初次级圈数显示, 测试机系统自动判定. The number of primary and secondary turns is displayed, and the tester system automatically determines.</p>						

最终判定:

Final judgment

合格 PASSED

不合格 FAILED

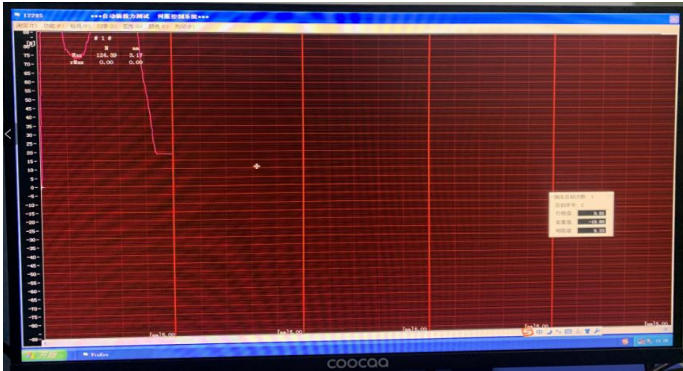
审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer		样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808			
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目 Test items	单PIN正向力 Single PIN elastic force						
测试目的 Test Purpose	确认产品结构可靠性 Confirm the reliability of product structure						
测试仪器 Tester	全自动插拔力实验机 Fully automatic insertion force tester						
测试条件 Test conditions	下压高度为端子弹起高度的1/2, 端子受力位置为接触端子厚金区. The pressing height is 1/2 of the terminal bounce height, and the terminal force position is the thick gold area of the contact terminal.						
测试步骤 Test Steps	1. 将产品上半部分切除, 然后将下半部分(有镀金端子)固定于测试底座上, 端子镀金面向上 Cut off the upper part of the product, and then fix the lower part (with gold-plated terminals) on the test base with the gold-plated side of the terminal facing up						
	2. 调整下压杆使下压杆正好处理端子厚金区正上方. Adjust the pressing rod to the just above the thick gold area of the terminal.						
	3. 对测试软件上荷重数据归零. Reset the load data on the test software to zero.						
	4. 对每个端子逐一进行下压操作, 下压距离为端子弹起高度的1/2, 记录每PIN最大荷重. Press down on each terminal one by one, the pressing distance is 1/2 of the terminal bounce height, and record the maximum load per PIN.						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	100g MIN.	120	130	110	120	130	PASS
测试图片 Reference pictures							单PIN逐一测试, 记录数据 Test single PIN one by one, and

最终判定:

Final judgment

合格 PASSED

不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

可靠性测试报告

Reliability test report

样品名称 Sample Name	RJ45 with transformer		样品料号 Part No.	MJF25T56ULB4-KF06A4GY-0808			
送样单位 Sender	工程	送样日期 Date	2025/10/21	样品数量: Samples QTY.	5PCS		
测试项目Test Items	振动测试 vibration test						
测试目的 Test Purpose	模拟在恶劣振动环境下产品结构可靠性 Simulate the reliability of product structure under harsh vibration environment						
测试仪器 Tester	振动测试台HX/T1-600HZ Vibration test table HX/T1-600HZ						
测试条件 Test Conditions	将产品包装好放入纸箱放在振动台上进行振动。振动频率10~55HZ之间变化，振幅1.52mm，10-55-10HZ为一个循环，1分钟一个循环。3个相互垂直的轴向各做90分钟。Pack the product in a carton and place it on a vibrating table for vibration. The vibration frequency varies between 10~55HZ, the amplitude is 1.52mm, 10-55-10HZ is a cycle, and one cycle lasts for 1 minute. Do 3 mutually perpendicular axes for 90 minutes each.						
测试步骤 Test Steps	1. 将电气测试PASS的5PCS产品放置于标准包装箱内，放置于振动平台上。Place the 5PCS product which passed the electrical test in the standard packaging box and place it on the vibrating table.						
	2. 按测试条件对振动平台进行参数设置。Set the parameters of the vibration table according to the test conditions.						
	3. 启动测试，每个垂直的轴向计时1.5小时后更换为另一垂直轴面，直到按要求完成测试 Start the test, and each vertical axis is timed for 1.5 hours and then replaced with another vertical axis until the test is completed as required						
	4. 开箱，对5PCS样品按图纸进行所有的电气性能测试，检查外观是否有破损及结构失效 4. Open the box, perform all electrical performance tests on 5PCS sample according to the drawings, and check the appearance for damage and structural failure						
测试结果 Result	规格Spec.	样品1 Sample 1	样品2 Sample 2	样品3 Sample 3	样品4 Sample 4	样品5 Sample 5	判定 Judgment
	外观检查 Visual Inspection	OK	OK	OK	OK	OK	PASS
	Open Test	OK	OK	OK	OK	OK	PASS
	LCR 350uH MIN	646	644	648	652	650	PASS
测试图片 Reference pictures							

最终判定:

Final judgment

合格 PASSED

不合格 FAILED

审核: Lake

测试: Chen
Tester

QR0025

POLYPLASTICS CO LTD

VECTRA DIV, KASUMIGASEKI BLDG, 6TH FL 2-5 KASUMIGASEKI 3-CHOME CHIYODA-KU TOKYO 100-6006 JAPAN

Material Designation: **E130i(d)(e)**

Product Description: Liquid Crystal Polymer (LCP), thermotropic aromatic polyester, designated "Vectra" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.75	V-0	2	4	240	220	240	-	-
	1.5	V-0	1	4	240	220	240	-	-
	3.0	V-0	0	4	240	220	240	-	-
CTI: 4			HVTR: 0		D495: 5		IEC BP: -		

(d) Virgin and regrind up to 50% by weight incl. have the same basic material characteristics for colors NC and BK.

(e) In addition, regrind at 26 to 50% have the same basic characteristics at a minimum of 1.5mm except RTI's for the Mechanical w/Impact property is 180C.

Report Date: 08/19/1992

Underwriters Laboratories Inc®

593273003

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



云泰铜业产品质量检验报告 YUNTAI COPPER INDUSTRY WARRANTY LIST

客户名称 Customer	鑫永盛	订单编号 Order No.		出货日期 Delivery Date	2024/10/27
牌号-状态 Design-Temper	规格 mm Size	料卷批号 Coil No.	毛重kg G.W	净重kg N.W	执行标准 Standard No.
H65 H	0.2*400	244630	2425.6	2416	GB/T 2059-2017

外形尺寸 Physiacl Dimension

项目 Item		厚度, mm Thickness	宽度, mm Width	侧弯, mm/m Camber	毛刺, mm Burr	表面粗糙度Ra, μm Roughness
规范 Spec	最大Max	0.2				
	最小Min	0.19				
实测值Actual		0.195	400			

主要化学成分 Chemical Composition, %

元素Element		Cu	Zn	Fe	Pb	Ni			
规范 Spec	最大Max	68.0	余量	≤ 0.05	≤ 0.01	0.5			
	最小Min	63.5	余量	/	/	/			
实测值Actual		63.96		0.0221	0.0041	0.0154			

机械性能 Mechanical Properties

项目 Item		抗拉强度Rm, N/mm ² Tension Strength	延伸率, % Elongation	维氏硬度Hv Hardness	杯突值, mm Erichsen	晶粒度, mm Grain Size
规范 Spec	最大Max			160		
	最小Min			140		
实测值Actual		473	17	152		

质保书未填报的检测项目均合格, 敬请注意: (1) 货到后请立即验收并放在室内干燥处。(2) 验收后对产品内在、外在质量存在异议, 请立即致电通知, 并在收货后3个工作日内函告本公司。(3) 如有质量异议, 请注明产品牌号、规格、状态、批号、收货日期等信息, 以便追溯与改进。(4) 质保有效期为1个月。

检验结论 Test Result	合格	检验员 Checker		审核员 Inspector	
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公司地址: 江西省贵溪市经济开发区贵八路8号

电话Tel: 0701-3339139 3339028





福建紫金铜业有限公司

Fujian Zijin Copper CO.,LTD.

产品质量保证书

INSPECTION CERTIFICATE

福建省上杭县南岗工业开发区 邮编 364200

Nangang Development Park Shanghang Fujian

P. C. 364200 P. R. China

TEL (0597) 3960609

客户: 深圳鑫永盛

NO: 20241228001

带卷号	牌号	状态	规格	公差	重量(kg)	件数
Q82441217B3	C5210	EH	0.35×26	+0/-0.01	249.3	

化学成分 CHEMICAL COMPOSITION %

化学标准: JIS H 3130: 2018

项目	Cu (%)	Sn (%)	P (%)	Zn (%)	Ni (%)	Pb (%)	Fe (%)	Si (%)	Al (%)	Cu+Sn+P (%)
规范	~	7<=J<=9	0.03<=J<=0.35	J<=0.2	~	J<=0.02	J<=0.1	J<=0.003	~	99.5<=J<=100
实测	92.205	7.615	0.143	0.0013	0.0276	0.0019	<0.0005	0.0013	<0.0003	99.963

物理性能 PHYSICAL PROPERTY

性能标准: JIS H 3130: 2018

项目	抗拉强度 (MPa)	延伸率 (%)	维氏硬度 (HV)	弯曲试验	粗糙度正 (um)	粗糙度反 (um)	降伏 (Mpa)	晶粒度 (mm)	导电率 (%IACS)	侧弯 (mm)
规范	685<=J<=785	J>=11	210<=J<=260	~	J≤0.26		J>=580	~	J>=12	~
实测	685	19.5	219	无裂纹	0.093	0.095	640	~	12.36	~

发货日期: 2025/02/24

检验: 297

备注:



东莞市中诚新材料科技有限公司

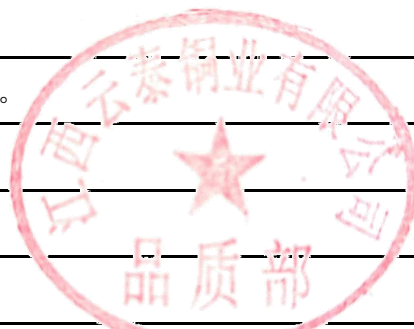
LCP E130I材质证明

项目	单位	试验方法	LCP E130I
密度	g/cm ³	ISO1183	1.61
拉伸强度*	Mpa	ASTM D638	175
伸长率*	%	ASTM D638	2.0
弯曲强度	Mpa	ISO178	220
弯曲模量	Mpa	ISO178	15.000
弯曲应变	%	ISO178	2.3
简支梁冲击强度	KJ/m ²	ISO179/1eA	35
负荷变形温度 (1.8M Pa)	BC	ISO75-1.2	280
成型收缩率	%	流动	0.02
	%	直角	0.54
	注射压力	Mpa	59
体积电阻率	% ¥ cm	IEC60093	1.0X10
表面电阻率	%	IEC60093	1.0X10
介电常数 1KHZ	(1Mhz)	IEC60250	4.3
1KHZ			3.8
10GHz			3.6
介电破坏强度 1KHZ	10X (1MHz)	IEC60250	0.017
1KHZ			0.032
10GHz			0.007
介电击穿强度 (1m m)	MV/m (1Mhz)	IEC2431	44
介电击穿强度 (3m m)			24
耐导电径迹性	V	IEC60112	125
耐电弧性	S		144
材料颜色	黑色	材料批号	2016.03.17

江西云泰铜业有限公司MSDS报告

物质安全资料表MSDS报告编号QJ/YTT2023-01					
MSDS: C2600/H70、C2680/H65、C2801/H62					
1. 物品与生产产商资料:					
物品中(英)文名称:			黄铜Brass		
物品代号:		C2600/H70、C2680/H65、C2801/H62			
化学名称:		Cu-Zn金属合金			
类别:		金属混合物			
供应商名称:		江西云泰铜业有限公司			
供应商电话:	0701-3339139		传真:	0701-3339028	
供应商网址:					
2. 产品牌号、成分:					
牌号	主成份(%)				
	Cu		Zn		
CAS NO	7440-50-8		7440-66-6		
C2600/H70	68.5-71.5		余量		
C2680/H65	64-68.5/63.5-68.5		余量		
C2801	59.0-63.0		余量		
3. 物理化学特性:					
无味、熔点较高	牌号	C2600/H70	C2680/H65	C2801/H62	
	熔点	955°C	930°C	905°C	
4. 安全性及反应性					
应避免潮湿和进水					
5. 危险识别资料:					
本产品 在固体时不具危险性。其粉尘与烟雾具危险性。粉尘与烟雾无气味,长时间暴露与粉尘及烟雾的工作环境下,对眼睛、呼吸系统、皮肤会造成刺激伤害,必须佩带保护器。身体被接触的部位,必须彻底清洗。					

6. 急救措施:	
眼睛接触: 以大量清水冲洗, 并送医院检查。	
吸入或食入: 大量喝水并催吐, 并送医院检查。	
皮肤接触: 清水冲洗干净。	
7. 取用及储存方式:	
取用注意事项:	
1) . 轧延产品之端面易割伤皮肤应小心取用。	
2) . 切削加工时会产生粉尘, 应小心粉尘不可泄漏至空气中。	
3) . 需注意产品有倒翻之危险, 易造成压伤, 吊运时要十分注意。	
4) . 打包带剪除时, 小心其末端会弹起, 容易划伤, 操作时需注意安全。	
6. 存储条件:	
避免放置于潮湿或酸/酸性物质或酸/酸性气体之场所。	
8. 泄漏处理:	
不会泄漏。	
9. 人员暴露防护措施:	
呼吸防护:	长时间暴露于粉尘及烟雾的工作环境下, 要有呼吸防护器具, 佩带防护口罩。
通风防护:	工作场所中, 必须保持通风。
眼睛及皮肤防护:	需要佩带护目镜、防护手套防止割伤。
人员防护:	作业时应穿工作安全鞋。
10. 毒性资料:	
来源途径:	
粉尘: 食入、吸入、眼睛接触。	
烟雾: 吸入、眼睛接触、皮肤接触。	
本产品的成品不具毒性, 对生态不具毒性。	
11. 防火措施:	
不易燃易爆	
12. 生态资料:	



不会对生态产生影响			
13. 废弃处理:			
本产品不属于危害性废弃物, 须丢弃时委托专门回收商予以回收再生产。			
14. 运输资料:			
运输产品时不要直接与水接触, 并且要注意防止滑落、翻倒的危险发生。			
15. 法规资料:			
通常无特定法规规定, 但在会产生粉尘的场所必须遵守相关部门的关于安全生产的规定。			
16. 其他资料:			
本MSDS内容资料应被所有使用、运输、存储或暴露于本产品之公司/人员充分了解与接受, 并应用与使用、加工、生产或管理与本产品有关之作业规定上。			
制表人:	钱高祥	制表日期:	2024年元月10日

物质安全资料表 (MSDS)

一、物品与厂商资料

物品名称: C5210 厂商: 江西科美格新材料有限公司 地址: 江西省上饶市铅山县工业园区 电话: 0793-5327699
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二、成分辨识资料

化学名称	铜 Cu	锡 Sn	锌 Zn	镍 Ni	磷 P	铅 Pb	铁 Fe
含量	余量	7.0-9.0	≤0.2	0.28-0.3	0.13-0.18	≤0.01	≤0.02
化学文摘社 登记号码	7440-50-8	7440-31-5	7440-66-6	7440-02-0	7723-14-0	7439-92-1	7439-89-6
危害物质	无						

三、危害辨识资料

最 重 要 危 害 效 应	健康危害效应: 无相关资料。
	环境影响: 对于环境无危险妨害。
	物理性及化学性危害: 无。
	特殊危害: 无。
主要症状: 无。	
物品危害分类: 无相关资料。	
本制品属于固体金属物体, 不被定义成危险有害物质, 并无有害性及不具有危险性但分条切割后边角, 如因作业疏忽不当, 则有危害性。	

四、急救措施

不同暴露途径之急救方法: 吸入: 无相关资料。 皮肤接触: 无相关资料。 眼睛接触: 无相关资料。 食入: 无相关资料。
最主要症状及危害效应: 无相关资料。
对急救人员之防护: 无相关资料。
对医师之提示: 无相关资料

五、灭火措施

灭火时可能遭遇之特殊危害: 不燃物, 不适用。
适用灭火剂: 不燃物, 不适用。
特殊灭火程式: 不燃物, 不适用。
消防人员之特殊防护设备: 不燃物, 不适用



六、泄露处理方法:

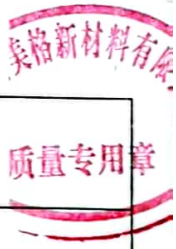
个人应注意事项: 固体物质, 不适用。
环境注意事项: 固体物质, 不适用。
方法: 固体物质, 不适用。

七、安全处置与储存方法

<p>处置:</p> <ol style="list-style-type: none">1、 板材制品之边缘及端面可能造成皮肤割伤需小心处置。2、 机械加工时如有金属粉尘, 应小心研究及皮肤接触, 请佩戴保护器具。3、 金属类制品因品质, 易因操作不当而压伤, 在吊挂搬运时需注意避免掉落之危险 (对于行车及堆高机操作人员 需经过专业培训并取得使用资格)。4、 制品成卷状时有卷曲张力存在, 剪断打包带时应注意尾端弹起造成伤害。
<p>储存:</p> <ol style="list-style-type: none">1、 储存于干燥通风良好之室内即可, 因其在潮湿高温下容易产生氧化。2、 避免暴露于室外或温湿度高之密闭空间。避免与酸、碱等有腐蚀性物质一起储放。

八、暴露预防措施

工程控制: 机械加工场所中, 若产生烟雾及粉尘时, 必要有通风设备及集压装置。
<p>个人防护设备:</p> <p>呼吸防护: 呼吸防尘器具, 佩戴呼吸防尘口罩。</p> <p>手部防护: 工作防护手套。</p> <p>眼睛防护: 护目镜。</p> <p>皮肤及身体防护: 适当之工作服、安全鞋。</p>
卫生措施: 无相关资料。



九、物理及化学性

物质状态: 固态	形状: 依制品件 (卷/片)
颜色: 紫色光泽表面	气味: 无味



十、安定性及反应性

安定性：稳定。一般环境状况下安全。
特殊状况下可能之危害反应：无相关资料。
应避免之状况：无相关资料。
应避免之物质：酸、碱物质类。
危害分解物：无相关资料。

十一、毒性资料

急毒性：无相关资料。
局部效应：无相关资料。
致敏感性：无相关资料。
慢毒性或长期毒性：无相关资料。

十二、生态资料

可能之环境影响/环境流布：无相关资料。

十三、废弃处置方法

废弃处置方法： 属于危害性废弃物，且为可回收之资源类不适用于环保废弃物管理条例。

十四、运送资料

国际运送规定：无相关资料。
国内运送规定：依据道路交通安全法法则。
特殊运送方法及注意事项：运送本产品勿直接与水接触，勿挤压碰撞，并注意有滑落及翻覆危险性。

十五、法规资料

适用法规：无特定法令规定，但工作场所依劳工安全卫生法劳工作业规定。

十六、其他资料

参考文献	电子信息产品污染控制管理办法
制表单位	名称：江西科美格新材料有限公司
	地址：江西省上饶市铅山县工业园区
	电话/传真：0793-5327699
制表日期	2023年6月份



Material Safety Data Sheet

物質安全資料表

一、物品與廠商資料/Product and Company Identification

物品名稱：液晶聚合物 Product Name
產品編號：LCP E130I Product Code
建議用途及限制使用：連接器... Suggestion and Restriction on application:
製造商或供應商名稱、地址及電話：东莞市中誠新材料科技有限公司 Address & Tel. of Manufacturer r Agent 东莞市大朗鎮
緊急聯絡電話/傳真電話：0769-81238797 Emergency Phone Number/Fax

二、危害辨識資料/ Hazard Identification

物品危害分類/Hazard Classification：Cd、Pb Hg Cr (VI) PBBs PBDEs 不含有
GHS 標示內容 / GHS Label Elements：---
象徵符號 Symbol: ---
警示語/Singal Words: ---
危害警告訊息/Hazard statement: ---
危害防範措施/Precaution:---
其他危害 Others:---

三、成分辨識資料/Composition, Information on Ingredients

純物質/Pure Material:

中英文名稱 Material name: 液晶聚合物
同義名詞 Synonyms: LCP E130I
化學文摘社登記號碼 (CAS NO.): 60088-52-0
危害物質成分(成分百分比) Hazard Ingredients Composition: ----

混合物質/Mixture:

危害物質成分之中英文名稱 Names of Hazardous Chemicals	濃度及濃度範圍(成分百分比) Consistency & tolerance	CAS NO :	危害物質分類及 測試 Classification of haz ardous substances a nd testing
Polywer Resin 樹脂	65-70%	60088-52-0	N.D
Carbon Glass 玻纖	25-30%	65997-17-3	N.D
Other 其他	3-5%	Trade secret	N.D

四、急救措施/ First Aid Measures

不同暴露途徑之急救方法/ First Aid Measures for Different Kinds of Exposures : • 吸入/Inhalation：當吸入加熱所逸出之氣體，將患者移至通風良好之處，如有必要則醫治療
--

Material Safety Data Sheet

<ul style="list-style-type: none">• 皮膚接觸/Skin Contact：儘快脫出受污染的衣服，以大量清水至少沖洗 15 分鐘，任何不適，立即送醫。• 眼睛接觸/Eye Contact：撐開眼皮,立即以大量清水沖洗直到送到救護站,立即送醫• 食入/Ingestion：催吐,以清水漱口,立即送醫
最重要症狀及危害效應/Most Important Symptoms and Hazard Reactions：---
對急救人員之防護/Protection to First-Aid Attendants：應穿著 C 級防護裝備在安全區實施急救
對醫師之提示/Suggestions to Doctors：吞食時,考慮洗胃,活性碳及通便

五、滅火措施/ Fire Fighting Measures

適用滅火劑/Suitable Extinguishing Media：A、B、C 乾粉滅火器
滅火時可能遭遇之特殊危害/Special Hazards in Fire：---
特殊滅火程式/Special Fire-Fighting Procedures：灑水便於工作溫度降低冷卻
消防人員之特殊防護設備/Required Special Protective Equipment for Fire-Fighters：使用供氧式呼吸護具及消防衣手套

六、洩漏處理方法/ Accidental Release Measures

個人應注意事項/ Personal Precautions：穿適當的防護裝備
環境注意事項/Environmental Precautions：對於洩漏區通風，以清水沖洗乾淨。為防止鳥類或魚類由排水系統中攝食，須徹底回收。
清理方法/Methods for Cleaning：原封不動的原料作廢棄物處理或回收利用

七、安全處置與儲存方法/ Handling and Storage

處置/Handling：操作處所嚴禁煙火，做好整理整頓以避免粉塵累積。為防止塵爆，空氣輸送管路、袋濾器及儲槽須加裝靜電消除裝置，並確實接地。袋濾器之濾材膠用導電性材質。
儲存/ Storage：存放於陰涼處所，避免直射陽光、雨淋及急逐之溫差。儲存處嚴禁煙火。

八、暴露預防措施/ Exposure Controls, Personal Protection

工程控制/ Engineering Measures：局部排氣通風裝置
控制參數/ Control Parameters： <ul style="list-style-type: none">• 八小時日時量平均容許濃度(TWA)/短時間時量平均容許濃度(STEL)/最高容許濃度 (CEILING)：15mg/m³~ 5mg/m³• 生物指標/ BEIs：---
個人防護設備/ Personal Protection Equipment：

Material Safety Data Sheet

- 呼吸防護/Respiration：供氧式呼吸防護具,清洗時配有高效慮材之空氣淨化式呼吸式防護
 - 手部防護/Hand：防護手套
 - 眼睛防護/Eye：面罩(至少 8 寸),防塵安全護目鏡
 - 皮膚及身體防護/Skin & Body：
防塵工作鞋和長手套,2、使用人造纖維材質之防護且無掀起、折皺，口袋等減少灰塵沾粘
- 衛生措施/Hygiene Measures：工作後盡速脫掉污染衣物，工作場所嚴禁吸煙，維持作業場所清潔

九、物理及化學性質/ Physical and Chemical Properties

物質狀態/ State of Substance： 固體	形狀/Appearance： 粒狀
顏色/Color： BK/NC/彩色	氣味/Odor： 芳香
pH 值/pH Value： ---	沸點/沸點範圍/Boiling Point： N.A.(Not Applicable)
熔點/凝固點 Melting /Solidify Point: 306±5℃	揮發速率/Evaporative Speed:---
分解溫度/Decomposing Temperature： ---	閃火點： °F ≥ 200 °C Flash Point 測試方法： 開杯 閉杯 Test Methods： Open Slot Closed Slot
自燃溫度/Self-Igniting Temperature： ---	爆炸界限/Explosion Limits： ---
蒸氣壓/Vapor Pressure： N.A.	蒸氣密度/Vapor Density： N.A.
密度/Density： 1.78~1.76	溶解度/Dissolution： 水/不溶
分配係數/Distribution factor: ---	

十、安定性及反應性/Stability and Reactivity

安定性/Stability： 依一般操作及儲存程式時,穩定性佳.
特殊狀況下可能之危害反應/Possible Hazard Reaction Under Special Conditions： 粉塵危害
應避免之狀況/Conditions to Avoid： ---
應避免之物質/Materials to Avoid： ---
危害分解物/Hazardous Decomposition Products： ---

十一、毒性資料/ Toxicological Information

急毒性/Acute Toxicity： ---
局部效應/Local Reactions： ---

Xin Hecheng metal surface treatment Co., LTD. Dongguan City

Material safety instructions (MSDS)

I. Material and Enterprise Logo

Substance Name: Electroplated Gold Layer

Manufacturer's name: Dongguan Xin Hechengmetal surface treatment Co., LTD

Manufacturer's address: Room 601, Building 35, 126 Guangma Avenue, Ma Chong Town, Dongguan City

Manufacturer telephone: 13712303170

Fax number: /

II. Hazard Identification Data

Access to the human body: ■ Devour ■ Skin contact ■ Suction

Health hazard effects-acute:

a. Inhalation: During high-temperature processing, inhaling the gas released from this electroplating product will endanger respiratory organs (slightly)

b.Eyes: no irritation.

c.Skin: burns will be caused to the skin when melted at high temperature.

d.Swallowing: the symptoms are dyspepsia..

Health hazard effect-chronic: none

III. Material Composition and Composition Information

Harmful ingredients

Chemical name	Content	CAS NO.
Gold	99.98%	7440-57-5
Cobalt	0.02%	7440-48-4



IV. First Aid Measures

First aid methods:

Inhalation: If the gas released from this electroplating product is inhaled, move the patient to a ventilated place. If there is any discomfort, seek medical treatment immediately.

Skin contact: If you come into contact with this electroplated product, remove and rinse it in time. If you have allergy, go to a doctor immediately.

Ingestion: induce vomiting, rinse mouth with clear water, if serious, go to a doctor immediately.

V. Fire control measures

None (This electroplated coating will not cause fire)

VI. Emergency Treatment of Leakage (Accidental Release Measures)

Caution: If this electroplating product remains on the ground, clean it immediately to prevent personnel from falling down..

Cleaning method: recycling or scrapping. (Disposal according to the waste management method of local environmental protection unit)

VII. Operation, Disposal and Storage

1.Do a good job in sorting out to avoid mixing and piling up.

2.Products that have been opened but have not been used shall be sealed to avoid contact with air and oxidation.

3.Temperature operation should not be higher than 1063℃, personnel should wear protective measures to avoid inhaling steam and dust.

4.Storage: Store in a cool place to avoid direct sunlight and rain. Store temperature and humidity: 18-30℃, 10-70%RH

Version: A/0 2024.3.9

VIII. Exposure Prevention Measures

1. Personal Protection: Wear Work Clothes

2. Ocular region: ----- 3. Breathe: ----- 4. Finger covers or gloves are required for product contact;
5. Skin and body protection: clothing

Personal hygiene:

- 1.No food or drink is allowed in the workplace to avoid ingestion.
2.Wash hands thoroughly after handling this substance.
3.Keep the workplace clean.

IX. Physical and chemical characteristics

Material state	Appearance	Smell	Melting point	Boiling point
Solid state	Yellow	No	1063℃	2087℃
Explosion Limit: No				

X. Stability and reactivity

1. Stability: Good stability according to general operation and storage specifications.
2. Hazardous decomposition products: Strong oxidant, strong acid and hydrogen peroxide;
3. Possible hazardous reactions: -----

Xi. Toxicological information

Highly toxic	Special effect	Slow/persistent toxicity	Local effect/ Skin corrosiveness	To sensitivity or thrill
No	No	No	No	Very few

XII. Ecological information

Discarding to sea, water or land is strictly prohibited.

XIII. Precautions for Abandonment and Disposal

1. Refer to relevant laws and regulations;
2. According to the storage conditions and environment, the waste to be treated is stored;
3. Adopt centralized recycling treatment;

XIV. Transport information

Packaging shall be complete during transportation, and rain shall be prevented during transportation, and food items shall not be stored and transported together.;

XV. Regulatory Information and Signs

Hazard Warning Message: No

Hazard prevention measures:

1. Put it in a dry, ventilated and sealed state;
2. Stay away from high temperatures;
3. Wear gloves or finger covers.

Applicable law:

1. Principles of Labor Safety and Health Facilities;
2. General rules for hazardous substances and hazardous substances;
3. Measures and Facilities Standards for Storage and Removal of Business Wastes;



XVI. Other information

No

Xin Hecheng metal surface treatment Co., LTD. Dongguan City

Material safety instructions (MSDS)

I. Material and Enterprise Logo

Substance Name: Electroplated Tin layer

Manufacturer's name: DongguanXin Hecheng metal surface treatment Co., LTD

Manufacturer's address: Room 601, Building 35, 126 Guangma Avenue, Ma Chong Town, Dongguan City

Manufacturer telephone: 13712303170

Fax number: /

II. Hazard Identification Data

Access to the human body: ■ Devour ■ Skin contact ■ Suction

Health hazard effects-acute:

a. Inhalation: In the process of high-temperature processing, it is recommended to wear a mask to avoid breathing gas from this electroplating product which may harm the respiratory organs (slight)

b. Eyes: no irritation.

c. Skin: burns will be caused to the skin when melted at high temperature.

d. Swallowing: the symptoms are dyspepsia..

Health hazard effect-chronic: none

III. Material Composition and Composition Information

Harmful ingredients

Chemical name	Content	CAS NO.
Tin	100.00%	7440-31-5



IV. First Aid Measures

First aid methods:

Inhalation: If the gas released from this electroplating product is inhaled, move the patient to a ventilated place. If there is any discomfort, seek medical treatment immediately.

Skin contact: If you come into contact with this electroplated product, remove and rinse it in time. If you have allergy, go to a doctor immediately.

Ingestion: induce vomiting, rinse mouth with clear water, if serious, go to a doctor immediately.

V. Fire control measures

None (This electroplated coating will not cause fire)

VI. Emergency Treatment of Leakage (Accidental Release Measures)

Caution: If this electroplating product remains on the ground, clean it immediately to prevent personnel from falling down..

Cleaning method: recycling or scrapping. (Disposal according to the waste management method of local environmental protection unit)

VII. Operation, Disposal and Storage

1. Do a good job in sorting out to avoid mixing and piling up.

2. Products that have been opened but have not been used shall be sealed to avoid contact with air and oxidation.

3. Temperature operation should not be higher than 231.9°C, personnel should wear protective measures to avoid inhaling steam and dust.

4. Storage: Store in a cool place to avoid direct sunlight and rain. Store temperature and humidity: 18-30°C, 10-70%RH

Version: A/0 2024.3.9

VIII. Exposure Prevention Measures

WI-HQ-16

1. Personal Protection: Wear Work Clothes
 2. Ocular region: -----
 3. Breathe: -----
 4. Finger covers or gloves are required for product contact;
 5. Skin and body protection: clothing
- Personal hygiene:
- 1.No food or drink is allowed in the workplace to avoid ingestion.
 - 2.Wash hands thoroughly after handling this substance.
 - 3.Keep the workplace clean.

IX. Physical and chemical characteristics

Material state	Appearance	Smell	Melting point	Boiling point
Solid state	Silvery white	No	231.9℃	2260℃
Explosion Limit: No				

X. Stability and reactivity

1. Stability: Good stability according to general operation and storage specifications.
2. Hazardous decomposition products: Strong oxidant, strong acid and hydrogen peroxide;
3. Possible hazardous reactions: -----

Xi. Toxicological information

Highly toxic	Special effect	Slow/persistent toxicity	Local effect/ Skin corrosiveness	To sensitivity or thrill
No	No	No	No	Very few

XII. Ecological information

Discarding to sea, water or land is strictly prohibited.

XIII. Precautions for Abandonment and Disposal

1. Refer to relevant laws and regulations;
2. According to the storage conditions and environment, the waste to be treated is stored;
3. Adopt centralized recycling treatment;

XIV. Transport information

Packaging shall be complete during transportation, and rain shall be prevented during transportation, and food items shall not be stored and transported together.;

XV. Regulatory Information and Signs

Hazard Warning Message: No

Hazard prevention measures:

1. Put it in a dry, ventilated and sealed state;
2. Stay away from high temperatures;
3. Wear gloves or finger covers.

Applicable law:

1. Principles of Labor Safety and Health Facilities;
2. General rules for hazardous substances and hazardous substances;
3. Measures and Facilities Standards for Storage and Removal of Business Wastes;



XVI. Other information

No

Xin Hecheng metal surface treatment Co., LTD. Dongguan City

Material safety instructions (MSDS)

I. Material and Enterprise Logo

Substance Name: Electroplated Nickel layer

Manufacturer's name: DongguanXin Hecheng metal surface treatment Co., LTD

Manufacturer's address: Room 601, Building 35, 126 Guangma Avenue, Ma Chong Town, Dongguan City

Manufacturer telephone: 13712303170

Fax number: /

II. Hazard Identification Data

Access to the human body: ■ Devour ■ Skin contact ■ Suction

Health hazard effects-acute:

a. Inhalation: In the process of high-temperature processing, it is recommended to wear a mask to avoid breathing gas from this electroplating product which may harm the respiratory organs (slight)

b. Eyes: no irritation.

c. Skin: burns will be caused to the skin when melted at high temperature.

d. Swallowing: the symptoms are dyspepsia..

Health hazard effect-chronic: none

III. Material Composition and Composition Information

Harmful ingredients

Chemical name	Content	CAS NO.
Nickel	100.00%	7440-02-0



IV. First Aid Measures

First aid methods:

Inhalation: If the gas released from this electroplating product is inhaled, move the patient to a ventilated place. If there is any discomfort, seek medical treatment immediately.

Skin contact: If you come into contact with this electroplated product, remove and rinse it in time. If you have allergy, go to a doctor immediately.

Ingestion: induce vomiting, rinse mouth with clear water, if serious, go to a doctor immediately.

V. Fire control measures

None (This electroplated coating will not cause fire)

VI. Emergency Treatment of Leakage (Accidental Release Measures)

Caution: If this electroplating product remains on the ground, clean it immediately to prevent personnel from falling down..

Cleaning method: recycling or scrapping. (Disposal according to the waste management method of local environmental protection unit)

VII. Operation, Disposal and Storage

1. Do a good job in sorting out to avoid mixing and piling up.

2. Products that have been opened but have not been used shall be sealed to avoid contact with air and oxidation.

3. Temperature operation should not be higher than 1453°C, personnel should wear protective measures to avoid inhaling steam and dust.

4. Storage: Store in a cool place to avoid direct sunlight and rain. Store temperature and humidity: 18-30°C, 10-70%RH

VIII. Exposure Prevention Measures

1. Personal Protection: Wear Work Clothes
2. Ocular region: -----
3. Breathe: -----
4. Finger covers or gloves are required for product contact;
5. Skin and body protection: clothing

Personal hygiene:

- 1.No food or drink is allowed in the workplace to avoid ingestion.
- 2.Wash hands thoroughly after handling this substance.
- 3.Keep the workplace clean.

IX. Physical and chemical characteristics

Material state	Appearance	Smell	Melting point	Boiling point
Solid state	Silvery white	No	1453℃	2732℃
Explosion Limit: No				

X. Stability and reactivity

1. Stability: Good stability according to general operation and storage specifications.
2. Hazardous decomposition products: Strong oxidant, strong acid and hydrogen peroxide;
3. Possible hazardous reactions: -----

Xi. Toxicological information

Highly toxic	Special effect	Slow/persistent toxicity	Local effect/ Skin corrosiveness	To sensitivity or thrill
No	No	No	No	Very few

XII. Ecological information

Discarding to sea, water or land is strictly prohibited.

XIII. Precautions for Abandonment and Disposal

1. Refer to relevant laws and regulations;
2. According to the storage conditions and environment, the waste to be treated is stored;
3. Adopt centralized recycling treatment;

XIV. Transport information

Packaging shall be complete during transportation, and rain shall be prevented during transportation, and food items shall not be stored and transported together.;

XV. Regulatory Information and Signs

Hazard Warning Message: No

Hazard prevention measures:

1. Put it in a dry, ventilated and sealed state;
2. Stay away from high temperatures;
3. Wear gloves or finger covers.

Applicable law:

1. Principles of Labor Safety and Health Facilities;
2. General rules for hazardous substances and hazardous substances;
3. Measures and Facilities Standards for Storage and Removal of Business Wastes;

**XVI. Other information**

No

安全技术说明书 (MSDS)

第一部分：产品名称

产品中文名称： 印制电路板

产品型号： 锡板

应商名称： 深圳市创铭辉电路科技有限公司

地址： 深圳市宝安区松岗街道燕川北部工业园A1栋三楼

联系电话： 0755-27396695 传真： 0755-27396697

第二部分：成分/组成信息

成份：

英文名	中文名	CAS NO.	百分比	備註
Tin	锡	7440-31-5	5-8%	
Nickel	镍	7440-02-0	5-6%	
Copper	铜	7440-50-8	15%	
Continuous Filament Fiber Glass	玻纤布	65997-17-3	36%	
Phosphorus Modified Epoxy Resin	磷改性环氧树脂	N/A	40%	
RESIN	改质环氧树脂	N/A	1%	
PIGMENT	色粉	12286-66-7	0. 125%	
PHOTO POLYMERIZATION INITIATORS	光启始剂	84-51-5	0. 125%	
NAPHTHA	石油脑	64742-94-5	0. 05%	
Barium Sulfate	硫酸钡	7727-43-7	0. 1%	
FILLERS	滑石粉	-	0. 1%	

第三部分：危险性概述

危险性类别： 不适用

危险综合性： 是一种难燃的产品，当使用时可能产生粉末，可能使皮肤或眼睛感到刺激。当分解时产生的气体会刺激眼睛、鼻和咽喉。

环境危害： 无

燃爆危险： 无

第四部分：急救措施

皮肤接触： 脱下已污染衣服，用流动水冲洗

眼睛接触： 用流动水冲洗15分钟，如过敏现象持续发生，请求助于医生。

吸入： 转移到有新鲜空气的地方，若仍不适立即就医

食入： 不要催吐，立即就医

第五部分：消防措施

危险特性： 不适用

有害燃烧产物： 当发生热分解时可能会释放出有毒的气体

灭火方法： 化学干粉、二氧化碳

灭火注意事项及措施： 消防员须身穿保护装置及正压呼吸设施。

应急处理： 不适用

第六部分：操作处置与储存

操作注意事项：操作时建议穿戴个人防护设施；
储存注意事项：真空包装、贮存温度20-30℃湿度≤70%

第七部分：接触控制/个体防护

监测方法：不适用
工程控制：使用当地除尘通风设施
呼吸系统防护：操作时使用规范的粉尘防毒面罩
眼睛防护：当加工材料时使用眼睛保护装置。
身体防护：穿戴个人防护设施；
手防护：穿戴无尘手套，处理此物后需彻底洗手。

第八部分：理化特性

主要成分：金、镍、铜、基材（环氧树脂+玻纤布）及油墨
外观与性状：外观：主要呈亚绿色（焊接部分呈金黄色），性状：固体
相对密度(水=1)：2.4±0.25
溶解性：在水中可忽略
主要用途：用于组装电子元器件

第九部分：稳定性和反应活性

稳定性：稳定 聚合危害：无
禁配物：不确定 分解产物：当加热超过300°C会产生金属烟尘
避免接触的条件：

第十部分：毒理学资料

急性毒性：无
刺激性：会导致眼、皮肤中度过敏

第十一部分：生态学资料

其它有害作用：无

第十二部分：废弃处置

废弃物性质：固体废弃物
废弃处置方法：
1. 分离法，将产品粉碎，将铜箔回收利用，剩余物可作填充料；
2. 焚烧法，焚烧过程中可能产生有毒的溴化物气体；
3. 填埋法。
废弃注意事项：处置必须遵循当地的法律法规。铜箔是可以再利用的。

第十三部分：运输信息

包装标志： 无
包装类别： 第III类
包装方法： 真空包装
运输注意事项： 无

第十四部分：法规信息

法规信息： 《国家危险废物名录》

第十五部分：其他信息

参考文献： 《化学品安全技术说明书》

制表人： 何兵兵
填表时间： 2021-08-01
填表部门： 品质部

SECTION 3. ----- HAZARDS IDENTIFICATION -----

Hazardous product for human health if swallowed

SECTION 4. ----- FIRST-AID MEASURES -----

Main effect : Risk of stomachache

Eye contact : No irritation in human.

Skin contact : No irritation in human.

Ingestion : If swallowed, wash out mouth with water provided person is conscious.

First aid : Consult with a physician in all cases.and take to hospital.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Common extinguishing means : In case of fire in close proximity,all means of extinguishing are acceptable,e.g. foam,dry chemical, carbon dioxide,water.

Inappropriate extinguishing means : No restriction

Specific hazards : Non-combustible if temperature is lower than 1200 degree C.

Protective measure in case of intervention : The product does not require any apECIAL precaution

Extinguishing instruction : Keep person removing from an upwind of fire.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----

Sweep up, place in a bag and collect for waste disposal.

Prevent discharge into the environment(sewers,river,soil,- - -)

SECTION 7. ----- HANDLING AND STORAGE -----

Handling : Keep in a above environment , and original packing ,closed to be free of chlorine and bromide material contaminant .

Storage : Keep storage place temperature from 20 to 40 degree C,humidity from 45 to 75% RH .

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

Engineering control : Premises ventilation

Authorized limit values : Not applicable

Respiratory protection : Not applicable

Hand protection : Not applicable

Eye protection : Not applicable

Skin protection : Not applicable

Other precaution : Not applicable

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Physical state : Solid
Appearance : Gray brown / Silver metal
Order : None
PH value : Not applicable
Decomposition temperature : Not applicable
Flash point : Not applicable
Boiling point : Not applicable
Melting point : About 1200 degree C Flammable
limits(LEL) : Not applicable Flammable
limits(UEL) : Not applicable
The energy storage capacity of watt-hours equal or less than 0.3Wh

SECTION 10. ----- STABILITY AND REACTIVITY -----

Stability : Stable on normal temperature and pressure
Condition to avoid : High temperature and humidity
Hazardous reaction with : Not applicable
Hazardous decomposition Products : Not applicable

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute effects : Not applicable
Toxicity : Not traceable

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Biological oxygen demand : Not applicable
Chemical oxygen demand : Not applicable
Biological /Chemical oxygen demand ratio : Not applicable
Biochemical factor : Not applicable
Ecotoxicity : Not applicable

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Installed or dump in a incinerator equipped in accordance with all federal, state , local and national environmental regulations.

SECTION 14. ----- TRANSPORT INFORMATION -----

No classification assigned.
Not subject to Transport-regulation Dangerous Substances under IATA Dangerous Goods Regulations.

SECTION 15. -----REGULATORY INFORMATION -----

Designation according to Sony SS-00259 ,EU WEEE/ROHS and customer 's related standard.
No classification assigned.

SECTION 16. -----OTHER INFORMATION-----

These data are based on our present knowledge.However,they shall not constitute a guarantee
for any specific product feature and shall not establish a legally valid contractual relationship.

Person responsible for SDS :

E-mail address: GP_service@yageo.com

Yageo Corporation Nantze Branch

No. 16, West. 3rd St., Nanzih Dist., Kaohsiung (N.T.I.P)

811626, Taiwan, R.O.C

TEL:886-7-9618999

FAX :886-7-9616898

MATERIAL SAFETY DATA SHEET

Date : 2020/3/10

MSDS No.Y-EM-3-23-01A

SECTION 1. -----PRODUCT IDENTIFICATION-----

Product name : Chip resistor (RC Series/YC Series /RE Series /TC Series/UE Series..)

Manufacturer's name :

YAGEO CORPORATION (Suzhou factory)

Address : No.10, Zhu Yuan Rd., Suzhou New District, Suzhou, Jiangsu Province.

TEL: +86.512.6825.5568

FAX: +86.512.6809.0039

SECTION 2. -----COMPOSITION/INFORMATION ON INGREDIENTS-----

Part name	Substance	substance in product wt%	CAS No
Ceramic Substrate	Al ₂ O ₃	75.0~93.0	1344-28-1
	SiO ₂	1.5~2.0	14808-60-7
	MgO	1.5~2.0	1309-48-4
Inner electrode(C1)	Ag	0.44~1.8	7440-22-4
	Pd	0.007~0.04	7440-05-3
Inner electrode(C2)	Ag	0.18~2.3	7440-22-4
Resistive layer	Ag	0.02~0.3	7440-22-4
	RuO ₂	0.1~1.7	12036-10-1
	Glass contain Pb	0.02~0.50	65997-18-4
Barrier layer	Ni	0.06~10	7440-02-0
Termination layer	Sn	0.06~5	7440-31-5
Glass layer	Glass	0.1~1.9	65997-17-3
Overcoat layer	Epoxy resin	0.2 ~3.2	25068-38-6
Marking	Epoxy resin	0~0.03	25068-38-6

SECTION 3. -----HAZARDS IDENTIFICATION-----

Hazardous product for human health if swallowed

SECTION 4. -----FIRST-AID MEASURES-----

Main effect : Risk of stomachache

Eye contact : No irritation in human.

Skin contact : No irritation in human.

Yageo Electronics (China) Co., Ltd. No.10, Zhu Yuan Rd., Suzhou New District, Suzhou, Jiangsu Province 215011, P.R.C.

Ingestion : If swallowed,urge to vomit,and take to hospital at once.

SECTION 5. -----FIRE FIGHTING MEASURES-----

Common extinguishing means : In case of fire in close proximity,all means of extinguishing are acceptable,e.g. foam,dry chemical, carbon dioxide,water.

Inappropriate extinguishing means : No restriction

Specific hazards : Non-combustible

Extinguishing instruction : Keep person removing from an upwind of fire.

SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

Sweep up, place in a bag and collect for waste disposal.

Prevent discharge into the environment(sewers,river,soil,- - -)

SECTION 7. -----HANDLING AND STORAGE-----

Handling : Keep storage place temperature from 15 to 35 degree C, humidity from 45 to 85% RH.

Storage : Keep in original packing , the above environment, and away from corrosive materials.

SECTION 8. -----EXPOSURE CONTROLS/PERSONAL PROTECTION-----

Engineering control : Premises ventilation

Authorized limit values : not applicable

Respiratory protection : not applicable

Hand protection : not applicable

Eye protection : not applicable

Skin protection : not applicable

Other precaution : not applicable

SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

Physical state : solid

Appearance : square/Black-Gray colors

Order : none

PH value : not applicable

Decomposition temperature : not applicable

Flash point : not applicable

Boiling point : not applicable

Melting point : >1600°C

Flammable limits(LEL) : not applicable

Flammable limits(UEL) : not applicable

SECTION 10. -----STABILITY AND REACTIVITY-----

Stability : stable on normal temperature and pressure

Condition to avoid : high temperature and humidity

Hazardous reaction with : not applicable

Hazardous decomposition products : not applicable

SECTION 11. -----TOXICOLOGICAL INFORMATION-----

Acute effects : not applicable

Toxicity : not traceable

SECTION 12. -----ECOLOGICAL INFORMATION-----

Biological oxygen demand : not applicable

Chemical oxygen demand : not applicable

Biological /Chemical oxygen demand ratio : not applicable

Biochemical factor : not applicable

Ecotoxicity : not applicable

SECTION 13. -----DISPOSAL CONSIDERATIONS-----

Installed or dump in a incinerator equipped in accordance with all federal, state , local and national environmental regulations.

SECTION 14. -----TRANSPORT INFORMATION-----

No classification assigned.

Not subject to Transport-regulation Dangerous Substances under IATA Dangerous Goods Regulations.

SECTION 15. -----REGULATORY INFORMATION-----

Designation according to EUWEEE/ROHS and Local regulations.

No classification assigned.

SECTION 16. -----OTHER INFORMATION-----

These data are based on our present knowledge. However, they shall not constitute a uarantee for any specific product feature and shall not establish a legally valid

contractual relationship.

Date of latest MSDS version : March.10.2020

Person responsible for MSDS :

Administrator: Eris Chen

Department:PED.Dep

Yageo Electronics (China) Co., Ltd

No.10, Zhu Yuan Rd., Suzhou New District, Suzhou,Jiangsu Province.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-3)

Dated: 2020/7/20

Reference: None

1. Identification of product and company

Product Name: Polyurethane/polyamide enamelled copper wire
Part description: QPN 130/155/180 0.030-0.361
Producer: SUNTEK WIRE (TAISHAN) CO., LTD
ADD: No.8, Zone, Wenhua Development Zone, Shuibu Town
Taishan 529262, Guangdong, China
Tel: +86-750-5508666
Fax: +86-750-5466999
Effective date: 2020/7/20

2. Composition/information on ingredients

Substance: Solid mixture of synthetic resin and copper wire
Hazardous components: None

CAS.NO	Component	Concentration
7440-50-8	Copper	74.85-95.96%
9009-54-5	Polyurethane resin	4.02-24.65%
32131-17-2	Polyamide resin	0.01-0.48%
secrecy	Blue dye	0.01~0.02%

3. Hazards identification

Classification: No danger.
Invading approach: None
Human health hazards: None
Environment hazards: Degrading hardly. Some parts are abandoned and contaminative.
Fire will produce carbonization and other organic compound.
Special hazards: None
Fire & explosion hazards: The insulation is flammable.

4. First aid measures

No skin contact hazards.

5. Fire-fighting measures

Classification: Flammable solid.
Hazard combustion products: Fire will produce dense black smoke containing hazardous combustion products.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-3)

Dated: 2020/7/20

Reference: None

Suitable extinguishing media: Universal aqueous film-forming foam, carbon dioxide (CO₂), dry chemical, water spray.

6. Accidental release measures

Measures: Stable solid. No release.

7. Handling and storage

Safe handling advice:

Handle carefully during transportation. Remove all naked lights. Handle under low temperature.

Requirements for storage :

Store under low temperature. Max temperature:40°C.

8. Exposure controls/personal protection

Engineering controls: Store at low temperature. Install low temperature equipment.

Physical controls: No skin contact hazards.

9. Physical properties

Appearance: Solid

Colour: Blue

Smell: None

Flash point: None

Major application: Electronic products

10. Stability and reactivity

Stability: Stable

Materials to avoid: Keep away from oxidizing agents, strongly alkaline and strongly acid materials.

Conditions to avoid: Surface damage.

Hazardous decomposition products: Fire will produce hazardous decomposition products such as carbon monoxide and dioxide, smoke.

11. Toxicological information

No skin contact hazards. No data available on occupational diseases.

12. Ecological information

Environment influence: Copper-alloy bits will influence environment.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-3)

Dated: 2020/7/20

Reference: None

13. Disposal considerations

Waste: Reclaimable copper-alloy,hard degrading waste.
Disposal method: Reclaim copper-alloy,Burn hard degrading waste.

14. Transport information

International transport regulations: None
UN-No. None
Domestic transport regulations: None
Special Provision: None

15. Regulatory information

Relevant laws and regulations: 《劳工安全卫生设施规则》
《事业废弃物贮存清除处理方法及设施标准化》

16. Other information

References: None

Drafted by: Manufacturing Center
Approved by: SUNTEK WIRE(TAISHAN)CO.,LTD
Draft date: 2020/7/20

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-2)

Dated: 2020/7/20

Reference: None

1. Identification of product and company

Product Name: Polyurethane/polyamide enamelled copper wire
Part description: QPN 130/155/180/200 0.030-0.361
Producer: SUNTEK WIRE (TAISHAN) CO., LTD
ADD: No.8, Zone, Wenhua Development Zone, Shuibu Town
Taishan 529262, Guangdong, China
Tel: +86-750-5508666
Fax: +86-750-5466999
Effective date: 2020/7/20

2. Composition/information on ingredients

Substance: Solid mixture of synthetic resin and copper wire
Hazardous components: None

CAS.NO	Component	Concentration
7440-50-8	Copper	74.85-95.56%
9009-54-5	Polyurethane resin	4.01-24.65%
32131-17-2	Polyamide resin	0.01-0.18%
secrecy	Green dye	0.01~0.02%

3. Hazards identification

Classification: No danger.
Invading approach: None
Human health hazards: None
Environment hazards: Degrading hardly. Some parts are abandoned and contaminative.
Fire will produce carbonization and other organic compound.
Special hazards: None
Fire & explosion hazards: The insulation is flammable.

4. First aid measures

No skin contact hazards.

5. Fire-fighting measures

Classification: Flammable solid.
Hazard combustion products: Fire will produce dense black smoke containing hazardous combustion products.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-2)

Dated: 2020/7/20

Reference: None

Suitable extinguishing media: Universal aqueous film-forming foam, carbon dioxide (CO₂), dry chemical, water spray.

6. Accidental release measures

Measures: Stable solid. No release.

7. Handling and storage

Safe handling advice:

Handle carefully during transportation. Remove all naked lights. Handle under low temperature.

Requirements for storage :

Store under low temperature. Max temperature:40°C.

8. Exposure controls/personal protection

Engineering controls: Store at low temperature. Install low temperature equipment.

Physical controls: No skin contact hazards.

9. Physical properties

Appearance: Solid

Colour: Green

Smell: None

Flash point: None

Major application: Electronic products

10. Stability and reactivity

Stability: Stable

Materials to avoid: Keep away from oxidizing agents, strongly alkaline and strongly acid materials.

Conditions to avoid: Surface damage.

Hazardous decomposition products: Fire will produce hazardous decomposition products such as carbon monoxide and dioxide, smoke.

11. Toxicological information

No skin contact hazards. No data available on occupational diseases.

12. Ecological information

Environment influence: Copper-alloy bits will influence environment.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-2)

Dated: 2020/7/20

Reference: None

13. Disposal considerations

Waste: Reclaimable copper-alloy,hard degrading waste.
Disposal method: Reclaim copper-alloy,Burn hard degrading waste.

14. Transport information

International transport regulations: None
UN-No. None
Domestic transport regulations: None
Special Provision: None

15. Regulatory information

Relevant laws and regulations: 《劳工安全卫生设施规则》
《事业废弃物贮存清除处理方法及设施标准化》

16. Other information

References: None

Drafted by: Manufacturing Center
Approved by: SUNTEK WIRE(TAISHAN)CO.,LTD
Draft date: 2020/7/20

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-1)

Dated: 2020/7/20

Reference: None

1. Identification of product and company

Product Name: Polyurethane/polyamide enamelled copper wire
Part description: QPN 130/155/180/200 0.030-0.361
Producer: SUNTEK WIRE (TAISHAN) CO., LTD
ADD: No.8, Zone, Wenhua Development Zone, Shuibu Town
Taishan 529262, Guangdong, China
Tel: +86-750-5508666
Fax: +86-750-5466999
Effective date: 2020/7/20

2. Composition/information on ingredients

Substance: Solid mixture of synthetic resin and copper wire
Hazardous components: None

CAS.NO	Component	Concentration
7440-50-8	Copper	74.85-95.96%
9009-54-5	Polyurethane resin	4.03-24.67%
32131-17-2	Polyamide resin	0.01-0.48%

3. Hazards identification

Classification: No danger.
Invading approach: None
Human health hazards: None
Environment hazards: Degrading hardly. Some parts are abandoned and contaminative.
Fire will produce carbonization and other organic compound.
Special hazards: None
Fire & explosion hazards: The insulation is flammable.

4. First aid measures

No skin contact hazards.

5. Fire-fighting measures

Classification: Flammable solid.
Hazard combustion products: Fire will produce dense black smoke containing hazardous combustion products.
Suitable extinguishing media: Universal aqueous film-forming foam, carbon dioxide (CO₂), dry chemical, water spray.

MATERIAL SAFETY DATE SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-1)

Dated: 2020/7/20

Refercece: None

6. Accidental release measures

Measures: Stable solid. No release.

7. Handling and storage

Safe handling advice:

Handle carefully during transportation.Remove all naked lights. Handle under low temperature.

Requirements for storage :

Store under low temperature. Max temperature:40°C.

8. Exposure controls/personal protection

Engineering controls: Store at low temperature. Install low temperature equipment.

Physical controls: No skin contact hazards.

9. Physical properties

Appearance: Solid
Colour: Natural
Smell: None
Flash point: None
Major application: Electronic products

10. Stability and reactivity

Stability: Stable
Materials to void: Keep away from oxidizing agents, strongly alkaline and strongly acid materials.
Conditions to avoid: Surface damage.
Hazardours decomposition products: Fire will produce hazardours decomposition products such as carbon monoxide and dioxide, smoke.

11. Toxicological information

No skin contact hazards. No data available on occupational diseases.

12. Ecological information

Environment influence: Copper-alloy bits will influence environment.

13. Disposal considerations

Waste: Reclaimable copper-alloy,hard degrading waste.
Disposal method: Reclaim copper-alloy,Burn hard degrading waste.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-1)

Dated: 2020/7/20

Refercece: None

14. Transport information

International transport regulations: None

UN-No. None

Domestic transport regulations: None

Special Provision: None

15. Regulatory information

Relevant laws and regulations: 《劳工安全卫生设施规则》
《事业废弃物贮存清除处理方法及设施标准化》

16. Other information

References: None

Drafted by: Manufacturing Center

Approved by: SUNTEK WIRE(TAISHAN)CO.,LTD

Draft date: 2020/7/20

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-4)

Dated: 2020/7/20

Reference: None

1. Identification of product and company

Product Name: Polyurethane/polyamide enamelled copper wire
Part description: QPN 130/155/180/200 0.030-0.361
Producer: SUNTEK WIRE (TAISHAN) CO., LTD
ADD: No.8, Zone, Wenhua Development Zone, Shuibu Town
Taishan 529262, Guangdong, China
Tel: +86-750-5508666
Fax: +86-750-5466999
Effective date: 2020/7/20

2. Composition/information on ingredients

Substance: Solid mixture of synthetic resin and copper wire
Hazardous components: None

CAS.NO	Component	Concentration
7440-50-8	Copper	74.85-95.96%
9009-54-5	Polyurethane resin	4.02-24.65%
32131-17-2	Polyamide resin	0.01-0.48%
secrecy	Red dye	0.01~0.02%

3. Hazards identification

Classification: No danger.
Invading approach: None
Human health hazards: None
Environment hazards: Degrading hardly. Some parts are abandoned and contaminative.
Fire will produce carbonization and other organic compound.
Special hazards: None
Fire & explosion hazards: The insulation is flammable.

4. First aid measures

No skin contact hazards.

5. Fire-fighting measures

Classification: Flammable solid.
Hazard combustion products: Fire will produce dense black smoke containing hazardous combustion products.

MATERIAL SAFETY DATA SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-4)

Dated: 2020/7/20

Reference: None

Suitable extinguishing media: Universal aqueous film-forming foam, carbon dioxide (CO₂), dry chemical, water spray.

6. Accidental release measures

Measures: Stable solid. No release.

7. Handling and storage

Safe handling advice:

Handle carefully during transportation. Remove all naked lights. Handle under low temperature.

Requirements for storage :

Store under low temperature. Max temperature:40°C.

8. Exposure controls/personal protection

Engineering controls: Store at low temperature. Install low temperature equipment.

Physical controls: No skin contact hazards.

9. Physical properties

Appearance: Solid

Colour: Red

Smell: None

Flash point: None

Major application: Electronic products

10. Stability and reactivity

Stability: Stable

Materials to avoid: Keep away from oxidizing agents, strongly alkaline and strongly acid materials.

Conditions to avoid: Surface damage.

Hazardous decomposition products: Fire will produce hazardous decomposition products such as carbon monoxide and dioxide, smoke.

11. Toxicological information

No skin contact hazards. No data available on occupational diseases.

12. Ecological information

Environment influence: Copper-alloy bits will influence environment.

MATERIAL SAFETY DATE SHEET

Polyurethane/polyamide enamelled copper wire

No. ST/TS T-MSDS-009 (A2-4)

Dated: 2020/7/20

Refercece: None

13. Disposal considerations

Waste: Reclaimable copper-alloy,hard degrading waste.
Disposal method: Reclaim copper-alloy,Burn hard degrading waste.

14.Transport information

International transport regulations: None
UN-No. None
Domestic transport regulations: None
Special Provision: None

15. Regulatory information

Relevant laws and regulations: 《劳工安全卫生设施规则》
《事业废弃物贮存清除处理方法及设施标准化》

16. Other information

References: None

Drafted by: Manufacturing Center
Approved by: SUNTEK WIRE(TAISHAN)CO.,LTD
Draft date: 2020/7/20

物质安全资料表 (MSDS)

一、产品名称及产商资料:

产品中文名称:	锰锌软磁铁氧体磁芯+ PARYENE coating
产品英文名称:	the soft ferrite cores of Manganese and Zinc with PARYENE coating
公司中文名称:	湖南艾迪奥电子科技有限公司
公司英文名称:	Hunan Idea Electronic Technology Co., Ltd
制造商或供应商地址:	湖南省益阳市高新技术产业区东部新区
制造商或供应商电话/传真:	TEL: 0737-4726866 FAX: 0737-4726366

二、成分/组成信息:

组成成分	化学文摘号 CAS No.#	成分百分比	危害物质分类及图式
Fe ₂ O ₃	1309-37-1	60-70 wt %	N/A
ZnO	1314-13-2	10-20wt%	N/A
MnO	1344-43-0	10-20wt%	N/A
PARYENE-N	1633-22-3	0.1-0.2 wt %	N/A

三、危险性概述:

最 重 要 危 害 效 应	健康危害效应: 涂层汽化物会抑制中枢神经系统。高浓度可能导致意识丧失。
	环境影响: 涂层汽化物会影响空气品质。
	物理性及化学性危害: 高温 (超过 300°C) 会分解产生毒气。
	特殊危害: N/A
主要症状: 头痛、困倦、晕眩、恶心、呕吐、头昏眼花、暴躁、食欲不振、器官协调功能降低、失去知觉、平衡失调、心率不整、呼吸困难。	
物品危害分类:	

四、急救措施:

不同暴露途径之急救方法:
● 吸入: 1、远离暴露区到通风良好处。2、休息和保暖, 若呼吸停止即施与人工呼吸或心肺复生术。3、移除污染源。4、立即就医。
● 皮肤接触: 过敏体质者接触应立即用水冲洗干净即可。
最重要症状及危害效应: 涂层汽化物会刺激眼睛, 引起结膜炎。
对急救人员之防护: 佩戴口罩和手套
对医师之提示: 接触方式, 化学品名;

五、灭火措施:

适用灭火剂: 二氧化碳或干粉
特殊灭火程序: 1、在安全情况下将可能引燃物品搬离火场。2、大区域之大型火灾, 使用无人操作之水雾控制架、水管架或自动摇摆消防水瞄, 若不可行则撤离, 监控火燃烧完。3、向燃烧着炙热的物品上喷射灭火剂可能导致火势蔓延。4、消防人员需着化学防护衣和正压空气呼吸器或自抽式空气面具。

消防人员之特殊防护设备：消防人员必须配戴空气呼吸器、消防衣及防护手套。

六、泄漏处理方法：

个人应注意事项： N/A

环境应注意事项： N/A

清理方法： N/A

七、安全处置与储存方法：

处置： 1、远离火源、引燃源及不相容物。
2、张贴“严禁烟火”的警告标示。
3、保持走道和出口畅通无阻。

储存： 1、要储存在阴凉、通风良好以及阳光无法直接照射的地方。
2、避免接触水及其他有机溶剂等。
3、自然环境温度下储存即可。

八、暴露预防措施：

工程控制： 保持良好通风。

个人防护设备：

- 呼吸防护：空气中浓度超标时，配戴自吸过滤式防毒面具（半面罩）。紧急事态抢救或撤离时，应配戴空气呼吸器或氧气呼吸器。
- 手部防护：清除污染物时应戴防渗手套，材质以塑胶或人造橡胶为佳。

其他防护： 1、工作现场禁止吸烟或饮食。2、维持作业场所清洁。

九、物理及化学性质：

物质状态： 固态	形状： 环型
颜色： 本体为黑色，涂层为无色透明	气味： 涂层汽化会有刺鼻气味
熔点： 本体 > 1400℃	闪火点： N/A
密度： 本体为 4.9g/cm ³	溶解度： 不溶于水

十、稳定性及反应性：

稳定性： 正常状况下稳定

特殊状况下可能之危害： 火焰和其他引火源。

应避免之状况： 火焰和其他引火源。

应避免之物质： 水、强氧化剂等。

危害分解物： N/A

十一、 毒性资料：

急毒性： N/A

致敏感性： 过敏体质者接触可能导致皮肤过敏。

慢毒性或长期毒性： N/A

致癌性： N/A

十二、 生态资料：

可能之环境影响/环境流布： N/A

十三、 废弃处置方法：

废弃处置方法： 1、参照相关法规处理。
2、依照仓储条件储存待处理的废弃物。
3、炼钢厂回收处理。
4、不可焚化处理。

十四、 运送资料:

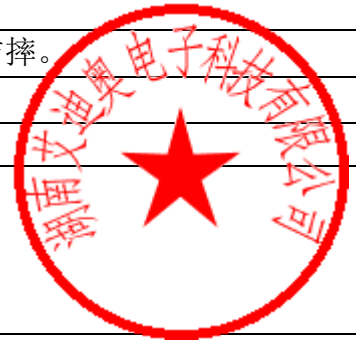
包装方法: 内包装用塑料袋, 外包装用纸箱。

运输注意事项: 运输途中应防曝晒、雨淋, 防潮, 防震, 防摔。

国内运输规定: 《道路交通安全规则》第 79 条

十五、 法规资料:

适用法规: 1、《劳工安全卫生设施规则》
2、《劳工作业环境空气中有害容许浓度标准》
3、《道路交通安全规则》
4、《事业废弃物储存处理及设施标准》



十六、 其它信息:

参考文献	N/A						
制表人	朱华	审核	邓辉玉	核准	俞卫国	日期	2018.07.28
修改说明	2011 年 05 月 18 日第一次制作; 2018 年 07 月 28 日第一次修改: 增加第十六项内容						
其它信息	N/A						

IDEA/FM-QAD-001

物质安全资料表 (MSDS)

一、产品名称及产商资料:

产品中文名称:	镍锌软磁铁氧体磁芯+ PARYENE coating
产品英文名称:	the soft ferrite cores of Nickel and Zinc with PARYENE coating
公司中文名称:	湖南艾迪奥电子科技有限公司
公司英文名称:	Hunan Idea Electronic Technology Co., Ltd
制造商或供应商地址:	湖南省益阳市高新技术产业区东部新区
制造商或供应商电话/传真:	TEL: 0737-4726866 FAX: 0737-4726366

二、成分/组成信息:

组成成分	化学文摘号 CAS No.#	成分百分比	危害物质分类及图式
Fe ₂ O ₃	1309-37-1	65--68wt%	N/A
ZnO	1314-13-2	15--20wt%	N/A
NiO	1313-99-1	8--11wt%	N/A
CuO	1317-38-0	3--5wt%	N/A
PARYLENE	1633-22-3	0.1--0.15%	N/A

三、危险性概述:

最 重 要 危 害 效 应	健康危害效应: 涂层汽化物会抑制中枢神经系统。高浓度可能导致意识丧失。
	环境影响: 涂层汽化物会影响空气品质。
	物理性及化学性危害: 高温 (超过 300°C) 会分解产生毒气。
	特殊危害: N/A
主要症状: 头痛、困倦、晕眩、恶心、呕吐、头昏眼花、暴躁、食欲不振、器官协调功能降低、失去知觉、平衡失调、心率不整、呼吸困难。	
物品危害分类:	

四、急救措施:

不同暴露途径之急救方法:
● 吸入: 1、远离暴露区到通风良好处。2、休息和保暖, 若呼吸停止即施与人工呼吸或心肺复苏术。3、移除污染源。4、立即就医。
● 皮肤接触: 过敏体质者接触应立即用水冲洗干净即可。
最重要症状及危害效应: 涂层汽化物会刺激眼睛, 引起结膜炎。
对急救人员之防护: 佩戴口罩和手套
对医师之提示: 接触方式, 化学品名;

五、灭火措施:

适用灭火剂: 二氧化碳或干粉
特殊灭火程序: 1、在安全情况下将可能引燃物品搬离火场。2、大区域之大型火灾, 使用无人操作之水雾控制架、水管架或自动摇摆消防水瞄, 若不可行则撤离, 监控火燃烧完。3、向燃烧着炙热的物品上喷射灭火剂可能导致火势蔓延。4、消防人员需着

化学防护衣和正压空气呼吸器或自抽式空气面具。

消防人员之特殊防护设备：消防人员必须配戴空气呼吸器、消防衣及防护手套。

六、泄漏处理方法：

个人应注意事项： N/A

环境应注意事项： N/A

清理方法： N/A

七、安全处置与储存方法：

处置： 1、远离火源、引燃源及不相容物。
2、张贴“严禁烟火”的警告标示。
3、保持走道和出口畅通无阻。

储存： 1、要储存在阴凉、通风良好以及阳光无法直接照射的地方。
2、避免接触水及其他有机溶剂等。
3、自然环境温度下储存即可。

八、暴露预防措施：

工程控制： 保持良好通风。

个人防护设备：

- 呼吸防护：空气中浓度超标时，配戴自吸过滤式防毒面具（非面罩）。紧急事态抢救或撤离时，应配戴空气呼吸器或氧气呼吸器。
- 手部防护：清除污染物时应戴防渗手套，材质以塑胶或人造橡胶为佳。

其他防护： 1、工作现场禁止吸烟或饮食。2、维持作业场所清洁。

九、物理及化学性质：

物质状态： 固态	形状： 环型
颜色： 本体为黑色，涂层为无色透明	气味： 涂层汽化会有刺鼻气味
熔点： 本体 > 1200℃	闪火点： N/A
密度： 本体为 4.9g/cm ³	溶解度： 不溶于水

十、稳定性及反应性：

稳定性： 正常状况下稳定

特殊状况下可能之危害： 火焰和其他引火源。

应避免之状况： 火焰和其他引火源。

应避免之物质： 水、强氧化剂等。

危害分解物： N/A

十一、 毒性资料：

急毒性： N/A

致敏感性： 过敏体质者接触可能导致皮肤过敏。

慢毒性或长期毒性： N/A

致癌性： N/A

十二、 生态资料：

可能之环境影响/环境流布： N/A



十三、废弃处置方法：

废弃处置方法：1、参照相关法规处理。
2、依照仓储条件储存待处理的废弃物。
3、炼钢厂回收处理。
4、不可焚化处理。

十四、 运送资料：

包装方法：内包装用塑料袋，外包装用纸箱。

运输注意事项：运输途中应防曝晒、雨淋，防潮，防震，防摔。

国内运输规定：《道路交通安全规则》第 79 条

十五、 法规资料：

适用法规：1、《劳工安全卫生设施规则》
2、《劳工作业环境空气中有害容许浓度标准》
3、《道路交通安全规则》
4、《事业废弃物储存处理及设施标准》



十六、 其它信息：

参考文献	N/A						
制表人	朱华	审核	邓辉玉	核准	俞卫国	日期	2018.07.28
修改说明	2011 年 05 月 18 日第一次制作；2018 年 07 月 28 日第一次修改：增加第十六项内容						
其它信息	N/A						

IDEA/FM-QAD-002



安全資料表 (SDS)

一、廠商資料及材料名稱

公司名稱、地址及電話：	公司名稱：盛宏光電有限公司 連絡地址：廣東省惠州市仲愷高新區盛華路 11 號 連絡電話：+86-752-5855988 傳真電話：+86-752-2776867
產品中英文名稱：	不飽和聚脂成型材料(Unsaturated Polyester (UP) Molding Compound)
產品規格：	WH-8100 series All color

二、主要成分組成資料

混合物：

中英文名稱：	不飽和聚脂成型材料(Unsaturated Polyester (UP) Molding Compound)	
組成物質化學分子式：	UP [C ₆ H ₅ CHCH ₂] _n Al(OH) ₃ SiO ₂	
危害物質成分(成分百分比)：	N.A.	
物質成分之名稱	濃度或濃度範圍 (成分百分比%)	CAS NO.
UP 樹脂	25~30	32762-75-7
填充粉 (ATH)	45~55	21645-51-2
玻璃纖維	20~30	65997-17-3

三、危害辨識資料

最重要危害效應：	健康危害效應：	吸入或皮膚接觸可能會引起過敏
	環境影響：	N.A.
	物理性及化學性危害：	N.A.
	特殊危害：	N.A.
主要症狀：	吸入或皮膚接觸可能會引起過敏	
物品危害分類：	N.A.	

四、急救措施

不同暴露途徑之急救方法：		
	吸入：	移至通風良好處，如呼吸困難，給予氧氣以助其呼吸，儘速就醫。
	皮膚接觸：	以大量清水及肥皂清洗即可，若有疼痛不適情況，須儘快就醫。
	眼睛接觸：	立即以清水沖洗至少 2 分鐘，緊急送醫處理
	食入：	以清水清洗嘴巴後，緊急送醫處理
最重要症狀及危害效應：		N.A.
對急救人員之防護：		N.A.

五、滅火措施

適用滅火劑：	N.A.
滅火時可能遭遇之特殊危害：	N.A.
特殊滅火程序：	N.A.

六、洩漏處理方法

個人應注意事項：	配戴面罩或活性碳口罩防止吸入塵埃
環境注意事項：	勿使物品流入地下水道系統
清理方法：	一般作業環境下作區別管理

七、處置與儲存方法

處置：	避免陽光直接照射之場所
儲存：	陰涼通風、乾燥之室內環境

八、暴露控制及個人保護措施

工程控制：	提供現場通風排氣設備，以控制空氣中粉塵和煙霧在容許的指標以下。	
個人防護設備：	呼吸防護：	面罩或活性碳口罩
	手部防護：	穿戴防護手套。
	眼睛防護：	配戴安全防護眼鏡。
	皮膚及身體防護：	長袖工作服
衛生措施：	N.A.	

九、物理及化學性質

物質狀態：	混合物	形狀：	顆粒狀
顏色：	任何顏色適用	沸點/沸點範圍：	N.A.
分解溫度：	> 300°C	閃火點：	N.A.
自燃溫度：	N.A.	爆炸界限：	N.A.
蒸氣壓：	N.A.	蒸氣密度：	N.A.
比重：	1.85 ~ 1.95	溶解度：	可溶於丙酮、丁酮、MIBK、甲苯、乙烷基乙酸鹽、三氯甲烷、THF..等等

十、安定性及反應性

安定性：	依正常使用程序安定性佳
特殊狀況下可能之危害反應：	N.A.
應避免之狀況：	N.A.
應避免之物質：	N.A.
危害分解物：	N.A.

十一、毒性資料

急毒性：	N.A.
局部效應：	N.A.
致敏感性：	吸入或皮膚接觸可能會引起過敏
慢毒性或長期毒性：	N.A.
特殊效應：	N.A.

十二、生態資料

可能之環境影響/環境流佈：	N.A.
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十三、廢棄處置方法

廢棄處置方法：	高溫焚化或掩埋，具領有牌照之廢棄物處理單位做適當處置
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十四、運送資料

國際運送規定：	N.A.
聯合國編號：	N.A.
國內運送規定：	N.A.
特殊運送方法及注意事項：	N.A.

十五、法規資料

適用法規：	N.A.
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十六、其他資料

參考文獻：	N.A.
製表單位：	名稱：華宏新技股份有限公司 地址：高雄縣燕巢鄉鳳雄村鳳旗路 330 號 電話：(07) 9761230 電話：(07) 9761211
製表人：	職稱：技術部專員 姓名：柯尚亨
製表日期：	2018/01/01
修改日期：	2018/01/01

物质安全资料表 (MSDS)

一、物品与厂商资料

物品名称: C5191

厂商: 安徽楚江科技新材料股份有限公司

地址: 中国(安徽)自由贸易试验区芜湖片区九华北路8号

电话: 0553-5316043

传真: 0553-5317652



二、成分辨识资料

化学名称	铜 Cu	锡 Sn	锌 Zn	镍 Ni	磷 P	铅 Pb	铁 Fe
含量	余量	5.630%	0.279%	0.293%	0.116%	0.0083%	0.035%
编号	7440-50-8	7440-31-5	7440-66-6	7440-02-0	7723-14-0	7439-92-1	7439-89-6
有害物质	无						

三、危害辨识资料

最 重 要 危 害 效 应	健康危害效应: 无相关资料。
	环境影响: 对于环境无危险妨害。
	物理性及化学性危害: 无。
	特殊危害: 无。
主要症状: 无。	
物品危害分类: 无相关资料。	
本制品属于固体金属物体, 不被定义成危险有害物质, 并无有害性及不具有危险性但分条切割后边角, 如因作业疏忽不当, 则有危害性。	

四、急救措施

不同暴露途径之急救方法: 吸入: 无相关资料。 皮肤接触: 无相关资料。 眼睛接触: 无相关资料。 食入: 无相关资料。
最主要症状及危害效应: 无相关资料。
对急救人员之防护: 无相关资料。
对医师之提示: 无相关资料。



五、灭火措施

适用灭火剂：不燃物，不适用。

灭火时可能遭遇之特殊危害：不燃物，不适用。

特殊灭火程式：不燃物，不适用。

消防人员之特殊防护设备：不燃物，不适用。

六、泄露处理方法：

个人应注意事项：固体物质，不适用。

环境注意事项：固体物质，不适用。

清理方法：固体物质，不适用。

七、安全处置与储存方法

处置：

- 1、板材制品之边缘及端面可能造成皮肤割伤需小心处置。
- 2、机械加工时如有金属粉尘，应小心研究及皮肤接触，请佩戴保护器具。
- 3、金属类制品因品质，易因操作不当而压伤，在吊挂搬运时需注意避免掉落之危险（对于行车及堆高机操作人员需经过专业培训并取得使用资格）。
- 4、制品成卷状时有卷曲张力存在，剪断打包带时应注意尾端弹起造成伤害。

储存：

- 1、储存于干燥通风良好之室内即可，因其在潮湿高温下容易产生氧化。
- 2、避免暴露于室外或温湿度高之密闭空间。避免与酸、碱等有腐蚀性物质一起储放。

八、暴露预防措施

工程控制：机械加工场所中，若产生烟雾及粉尘时，必要有通风设备及集压装置。

个人防护设备：

呼吸防护：呼吸防尘器具，佩戴呼吸防尘口罩。

手部防护：工作防护手套。

眼睛防护：护目镜。

皮肤及身体防护：适当之工作服、安全鞋。

卫生措施：无相关资料。

九、物理及化学性质

物质状态：固态	形状：依制品件（卷/片）
颜色：紫色光泽表面	气味：无味



十、安定性及反应性

安定性：稳定。一般环境状况下安全。

特殊状况下可能之危害反应：无相关资料。

应避免之状况：无相关资料。

应避免之物质：酸、碱物质类。

危害分解物：无相关资料。

十一、毒性资料

急毒性：无相关资料。

局部效应：无相关资料。

致敏感性：无相关资料。

慢毒性或长期毒性：无相关资料。

特殊效应：无相关资料。

十二、生态资料

可能之环境影响/环境流布：无相关资料。

十三、废弃处置方法

废弃处置方法：
不属于危害性废弃物，且为可回收之资源类不适用于环保废弃物管理条例。

十四、运送资料

国际运送规定：无相关资料。

国内运送规定：依据道路交通安全法法则。

特殊运送方法及注意事项：运送本产品勿直接与水接触，勿挤压碰撞，并注意有滑落及翻覆危险性。

十五、法规资料

适用法规：无特定法令规定，但工作场所依劳工安全卫生法劳工作业规定。

十六、其他资料

参考文献	电子信息产品污染控制管理办法
制表单位	名称：安徽楚江科技新材料股份有限公司
	地址：中国（安徽）自由贸易试验区芜湖片区九华北路8号
	电话/传真：0553-5316043 0553-5317652
制表日期	2025年1月份

物质安全资料表 (MSDS)

一、产品和公司说明

产品名称	无铅锡丝		
产品成分	SC07	产品类型	固态
供应商	广东中实金属有限公司		
地址	东莞市松山湖高新技术产业开发区工业北一路2号		
联系电话	0769-85231818	传真	0769-85231838

二、产品成分/数据

产品正式名称	无铅锡丝				
化学物质组分					
成分	CAS #	质量百分比 (%)	OSHA PEL (mg/m ³)	TLV-TWA (mg/m ³)	TLV-STEL (mg/m ³)
锡 (Sn)	7440-31-5	97.1154	2.0	2.0	N/A
铜 (Cu)	7440-50-8	0.6846	0.1	0.2	N/A
树脂 Rosin	65997-05-9	2.2	N/A	0.1	N/A
CAS: 化学文摘索引; OSHA: 美国职业安全与健康署; PEL: 允许暴露限度; TLV: 阈限值; TWA: 时间积累平均值; STEL: 短期暴露限值					

三、危险说明

紧急情况	高温焊料可能灼伤眼睛和皮肤。焊接过程中所产生烟雾对眼睛和呼吸系统会产生刺激作用, 并可能出现头疼特征。与助焊剂烟雾长期接触则可能出现过敏反应。
主要途径	<input type="checkbox"/> 皮肤 <input type="checkbox"/> 食入 <input checked="" type="checkbox"/> 吸入 <input checked="" type="checkbox"/> 眼睛
影响对象	眼睛、黏膜、呼吸系统。
潜在的健康效应 (短期接触)	
皮肤	助焊剂所产生的烟雾可能使皮肤出现局部过敏。高温熔融焊料可灼伤皮肤。
食入	不大可能发生。
吸入	使用过程中助焊剂所产生的烟雾可能影响黏膜及呼吸系统。
皮肤吸收	无。
潜在的健康效应 (长期接触)	
助焊剂所产生的烟雾可能会刺激眼睛, 引起头痛, 刺激黏膜及呼吸系统。	

四、急救措施

眼睛	烫伤眼睛时请用大量清水冲洗并及时就医, 采用眼罩防止烟雾刺激。
皮肤	皮肤灼伤马上用凉水冲洗。

吸入	呼吸新鲜空气，防止与烟雾接触。
食入	不大可能发生。

五、防火措施

可燃性	<input type="checkbox"/> 可燃 <input checked="" type="checkbox"/> 不可燃	应避免条件	无
闪点	不详	自燃温度	不详
燃烧极限	不详	灭火介质	<input type="checkbox"/> 水 <input type="checkbox"/> 二氧化碳 <input type="checkbox"/> 泡沫 <input checked="" type="checkbox"/> 灭火干粉
危险的燃烧产物	二氧化碳、一氧化碳	常态分解	<input type="checkbox"/> 可分解 <input checked="" type="checkbox"/> 不可分解
爆炸的可能性	加热、冲击、火花、明火条件下一般不会产生爆炸。		
灭火指示	无		

六、意外泄漏防护措施

个人防护	避免和皮肤、眼睛接触，彻底通风，不可呼吸蒸汽，杜绝明火，隔离火源，禁止吸烟，避免产生火花，撤离非相关人员，无人身危险时，关闭泄漏。
环境防范	防止污染土壤和水，用砂，土防止扩散或进入下水沟，江河。
熔融焊料	待其冷却至室温，再加以回收利用。回收过程注意避免吸入烟雾。

七、使用和储存

使用	焊料加热时避免吸入金属蒸汽。焊料切割和打磨操作时避免吸入灰尘。产品使用时应穿戴防护用品避免与眼睛、皮肤及衣服接触，以防烧烫伤。保持使用环境的良好通风。		
储存	注意通风，置于干燥处。与酸性介质接触或储存湿度过高将使焊料表面失去金属光泽。		
保存环境	1~38℃，相对湿度 75%RH 以下。		
产品转移	无。	器材	无。

八、接触控制与个人防护

工程控制	在大多数情况下，提供良好的抽风即可。控制室内的温度和干燥度达到要求。
个人防护措施	
呼吸系统保护	通风不好时，佩戴全面罩呼吸器。
手保护	胶手套或布手套。
眼睛保护	安全防护眼镜。
身体保护	工作服，耐化学品的安全鞋。
个人卫生习惯	操作化学物品以后应彻底洗手。

九、物理与化学性质

外观 (20℃)	固体	比重 (水=1at25℃)	7.33g/cm ³
熔点 (°C)	227℃	沸点 (760 mm Hg)	不适用
蒸发压 (mm Hg at 20℃)	无建立	挥发速度	0%
蒸发密度 (air=1)	不适用	挥发体积百分比	0%

水中溶解度	不溶	挥发性有机物	不适用
PH	不适用	气味	无建立
凝固点 (760 mm Hg)	不适用	W/O 分布系数	无建立
颜色及气味	银白色, 无味		

十、稳定性/反应性

化学稳定性	在一般温度下稳定。
应避免情况	热、火焰、潮湿、浸水。
与其它材料不相容性	强酸、强氧化性介质。
有毒的分解产物	加热到焊接温度时助焊剂产生烟雾。
腐蚀性	轻微腐蚀。

十一、毒性数据

急性口服毒性	低毒性, LD50 > 2000mg/kg		
急性皮肤毒性	低毒性, LD50 > 2000mg/kg		
急性吸入毒性	低毒性, LD50 > 5mg/L		
皮肤刺激性	轻微刺激性	眼睛刺激性	有刺激
皮肤过敏	局部过敏	重复剂量毒性	反复接触不致引起明显毒性反应
致突变性	无	致癌性	无
致突变性对人的影响: 长期/反复接触能引致皮肤脂致皮炎, 眼睛和呼吸系统刺激, 麻痹			

十二、处理事项预防

处理产品或容器之前参照第 7 部分	
废弃物处理	尽可能回收或循环使用
产品处理	尽可能回收或循环使用
地方法规	上述所推荐的方法适合安全处理, 但是地方法规可能更严格, 必须遵照地方法规执行。

十三、生态数据

生物分解能力	无建立相关资料。
评定根据	根据构成分子资料及类似物质的生态毒性而得
流动性	如果液态产品大量流入土壤, 可渗透深层并污染地下水
生物累积	生物累积不明显
对鱼急性毒性	无毒, LD/EC/IC50 > 1000mg/L
对无脊椎动物急性毒性	无毒, LC/EC/IC50 > 1000mg/L
对藻类急性毒性	预计无毒, LC/EC/IC50 > 1000mg/L
对细菌急性毒性	无毒, LC/EC/IC50 > 1000mg/L
污水处理	无毒, LC/EC/IC50 > 1000mg/L

其它	该产品不可能对水生物造成重大危害
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十四、运输数据

美国运输部 DOT	非 DOT 限制材料。如需要 DOT 法规资料, 可参阅运输法规。
欧洲 ADR/RID	非 ADR 限制材料。如需要 ADR 法规资料, 可参阅运输法规。
加拿大 TDG	非 TDG 限制材料。如需要 TDG 法规资料, 可参阅运输法规。

十五、法规资料

1) EC 危险分类用语	2) EC 安全用语
(R36/37)刺激眼睛及呼吸系统	(S9)容器存放在通风良好处
(R10)高度易燃	(S16)远离火源 - 禁止吸烟
(R20/R21)吸入及接触皮肤都有危险	(S24/25)避免接触皮肤和眼睛
(R38)对皮肤有刺激性	(S33)对静电和放电要采取预防措施
	(S36)穿着适当的劳防衣物
	(S43A)万一发生火灾, 使用沙, 泥土, 化学粉末或泡沫灭火

十六、其它资料

制表者单位	广东中实金属有限公司		
地址	东莞市松山湖高新技术产业开发区工业北一路 2 号		
电话/传真	0769-85231818 / 0769-85231838		
参考文献	—	HMIS 等级	健康: 1 可燃性: 0 反应: 0 个人保护: X
SDS 分类	本文件中的内容应分发给所有使用本产品的用户。		
注意事项	本资料只适用于指定的物质, 本资料是基于本公司现时的知识, 而且仅为健康, 安全和环保要求之目的。因此, 本公司对该资料的精确度, 可信度和完整度不作任何承诺和担保, 用户必须根据自己的应用对该资料的适用性和完整性负责。		

客户名称：重庆恒诺电子有限责任公司

承 认 书

品 名：无铅水溶性助焊剂 F102K31

承认书编号：Q/JUS602.004

承认日期：2022年10月20日



承认栏		客户鉴认	
承 认	成永富	承 认	
审 核	成兰英	审 核	
批 准	王光辉	批 准	

成都四海工艺技术研究应用中心

电话：成都 028-15308037487 绵阳 0816-13350026002 东莞 0769-15328226011

传真：0816-2539497



四海科技产品承认书

型号 F102K31 环保无铅水溶性助焊剂规格表

规格型号 SPECIFICATION NUMBER	Q/JUS602.004	日期 DATE	2020年11月17日 17 NOV. 2020
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	项目 SPECIFICATION	ITEM	测试方法	SPECS 规格
01.	FLUX MODEL	助焊剂型号	-----	F102K31
02.	FLUX GRADE	助焊剂分类	GB9491	无铅水洗型
03.	CHEMICAL CLASSIFICATION	化学分类	-----	ORGANIC ACID/有机弱酸型
04.	JOINTS VARNISH	焊点光泽	-----	BRIGHTEN/光泽型
05.	PHYSICAL STATE	产品外观	GB9491	LIQUID/液体
06.	COLOUR OF LIQUID	液体颜色	GB9491	浅黄色至无色透明
07.	SOLID CONTENT (g/L)	固体含量	GB9491	41 ± 1
08.	SPECIFIC GRAVITY (25)	密度	GB9491	0.791 ± 0.03
09.	PH VALUE	PH 值	-----	2-4
10.	ACID VALUE (mgKOH/ml)	酸值	-----	3-5
11.	BOLING RANGE ()	沸程	-----	75 ± 10
12.	TLV OF SOLVENT (ppm)	溶剂吸入允许率	-----	400ppm
13.	SPRAY FACTOR (%)	扩展率	GB9491	90
14.	APPLICATION	使用方式	GB9491	DIP/浸涂
15.	PRE-COATING	事先预涂	-----	禁止
16.	THINNER	稀释剂	-----	禁止

本产品属于环境友好型产品：不含 CFC 类成分，不破坏臭氧层；不含 Pb、Cr、Hg、Cd 等生物有害物质，满足 RoHS 规范最严格要求。

*本处所指数数据是清洗后测试值。

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Web http://www.cnofc.net/



四海科技产品承认书

物料安全资料表 MATERIAL SAFETY DATA SHEET (MSDS)

第一部分 化学品及企业标识 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1. 化学品名称：环保无铅水溶性助焊剂 LEAD-FREE SOLUBLE- FLUX
2. 化学品型号：F102K31
3. MSDS 编号：MSDS-F102K31 Q/JUS602.004
4. 化学品用途：主要用于网络变压器制造无铅制程之成品引脚搪锡等使用。残留物应该水洗除去，残留物易于水洗。
5. 生产企业标识：OFC 四海
6. 生产企业名称：四海工艺技术研究应用中心 OFC APPLIED SCIENCE & TECHNOLOGY GROUP CORP.
7. 生产企业地址：四川成都高新区 CHENGDU HI-TECH ZONE, SICHUAN CHINA
8. 生产企业联系方式：
Tel : 0086-28-15308037487、0086-816-6692487 Fax : 0086-816-2539497
Email : market@cnofc.net QQ2274838600 Web http://www.cnofc.net
9. 生产企业应急咨询电话/Emergency-support Tel : 0086-15328226001
国家级危险化学品应急响应中心-化学事故应急响应专线 0532-83889090

第二部分 成分及组成信息 COMPOSITION / INFORMATION ON INGREDIENTS

产品成分 COMPOSITION / INFORMATION ON INGREDIENTS

成分	CAS #	化学式	含量(wt%)
alcohol series solvent/醇系溶剂	75-65-0	C4H12O	95
Active agents/活性剂	110-94-1	C5H8O4	1
Surfactant agents/助剂	59113-36-9	C6H14O5	3
Other components/其他	128-37-0	C15H24O	1

化学性质：环境物质(CHEMICAL PROPERTIES : ENVIRONMENT MEETER)

详见文末附件：RoHS-REACH 测试报告

第三部分 危险性概述 HAZARDS SUMMARIZING

危险警告 HAZARDS IDENTIFICATION

物品危害分类	3 易燃液体
紧急情况综述	严禁阳光直射或高热。避免与眼接触。保持容器密封。
主要途径	皮肤 眼睛 吸入 吞食
影响对象	助焊剂烟雾：眼睛、粘膜、呼吸系统
眼睛	烟雾可能会对眼睛有暂时的轻微刺激性。
皮肤	可能会使皮肤有轻微的过敏现象。对皮肤无腐蚀作用。皮肤过敏可产生发痒、红斑、灼热特征。
吞食	吞食危害，灼伤食道。
皮肤吸收	不大可能

第四部分 急救措施 FIRST AID MEASURES

急救 FIRST AID MEASURES

眼睛：使用助焊剂液体时，请戴上保护眼镜。液体溅入眼里，有可能造成失明。万一液体进入眼中，请立即用大量自来水冲洗 15 分钟，并迅速就医。

皮肤：用肥皂水洗涤，并冲水或淋浴洗去。

吞食：如被吞食，寻求医疗协助。除非在医务人员的指导下，否则不可催吐。

第五部分 消防措施 FIRE-FIGHTING MEASURES

成都四海工艺技术研究应用中心

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Web http://www.cnofc.net/



四海科技产品承认书

消防措施 FIRE FIGHTING MEASURES

可燃性：	Yes	No
避免情况：	火花、明火、静电	
灭火介质	水	二氧化碳 泡沫 灭火干粉
危险的燃烧产物：	一氧化碳， 二氧化碳	
爆炸可能性：	不适用	
灭火指示：	防止烟雾。靠近火源时消防员保护设备使用自给式呼吸器。	

第六部分 泄漏应急处理 ACCIDENTAL RELEASE MEASURES

移除所有点火装置。请使用吸管或干布吸起，并用清水清洗干净。

第七部分 操作处理与储存 HANDLING AND STORAGE

个人注意：小心操作和注意个人清洁，以避免皮肤和眼睛接触，用后洗手。

贮存：此为易燃化学品，避免阳光直射，置阴凉通风干燥处。密闭容器封装，单独储存。存放于儿童不可触及之范围。远离热源、火种、静电。

有效期：六个月。

第八部分 接触控制与个体防护 EXPOSURE CONTROLS/PERSONAL PROTECTION

眼睛	使用安全罩保护眼睛
身段	工作服
呼吸道	尽可能避免吸入烟气，保持抽风
手	戴橡胶手套（塑胶）以防止皮肤接触
工程控制：提供良好的抽风以保证室内空气流畅。已用过之助焊剂请勿再倒入原包装以确保原液清洁	
个人卫生：穿戴防护工具，作业完毕请立即洗手	

第九部分 理化特性 PHYSICAL AND CHEMICAL PROPERTIES

项目 \ 型号	F102K31
外观	无色至淡黄色透明液体
气味	醇类特殊气味
不挥发份含量 (g/L)	41 ± 1
密度	0.791 ± 0.03
PH 值	2-4
酸值 (mgKOH/ml)	3-5
包装形式	200 升/塑胶桶或 25 升/塑胶桶

第十部分 稳定性和化学反应 STABILITY AND REACTIVITY

化学稳定性：0 室温下稳定	与其他材料的不相容性：酸、碱、油脂或无机物
应避免情况：严禁阳光直射或高热，避免接触酸或碱	有毒之分解物：不适用 有害之聚合物：无

第十一部分 毒理学资料 TOXICOLOGICAL INFORMATION

人体毒性反应：1 皮肤和眼睛接触可能产生刺激危害。 基因突变影响：不适用 畸胎学(出生缺陷)：不适用	致癌性：(混合物) - ACGIH 动物试验归为 A5 等级 (对人体无危害)，IAC 对人体可能归为 4 等级(对人体无危害)
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第十二部分 生态学资料 ECOLOGICAL INFORMATION

成都四海工艺技术研究应用中心

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四海科技产品承认书

生物耗氧量 BOD5：60-80%；
可能的环境影响：
土壤：醇类成分泄露到土壤时，会快速蒸发及流入地下。
水中：醇类成分泄露到水中时会蒸发(预估半衰期为 5.4 天)，及可能被生物分解
空气：醇类成分释放到大气中会进行光分解，预估半衰期为 1 到数天。

第十三部分 废弃处置 DISPOSAL

报废之助焊剂可清水稀释处理或交由有执照之有机废物处理公司。不可随意倾倒污染环境，或引起火灾。

第十四部分 运输信息 TRANSPORT INFORMATION

包装标志：无铅环保，以及产品代号，批号等信息。
包装容器：25 升塑料桶，或 200 升塑桶。长途运输，应采用厚型桶，密封，严禁泄露。
储运注意：防止日光曝晒和强热。长途运输，可外套木架箱保护。严禁重压和锐利东西钉刺桶壁。
按易燃危险化学品规定贮运。

第十五部分 法规信息 REGULATORY INFORMATION

道路安全规则

高压气体劳工安全规则

劳动安全卫生法、废弃物清理法。

《化学危险物品安全管理条例》(1987 年 2 月 17 日国务院发布)；

《化学危险物品安全管理条例实施细则》(化劳发[1992] 677 号)；

《工作场所安全使用化学品规定》([1996]劳部发 423 号)

《危险化学品登记管理办法》(2002 年 10 月 8 日)

GB15603 《常用危险化学品贮存通则》

GB5085.7 危险废物鉴别标准 通则

GB13690 《常用危险化学品的分类及标志》

GB18218 《危险化学品重大危险源辨识》

GB30000 化学品分类和标签规范

劳工安全卫生设施规则

危险物及有害物通识规则

劳工作业环境空气中有害容许浓度标准

中华人民共和国监控化学品管理条例

国家安全生产监督管理局《危险化学品名录》(2015 版)

国家安监总局《化学品物理危险性鉴定与分类管理办法》

联合国《全球化学品统一分类和标签制度》(GHS)

第十六部分 其他信息 OTHER INFORMATION

参考文献：《溶剂手册》、《试剂手册》、《固体废弃物试验分析评价手册》、欧盟/中国 ROHS 规范。

备注：等级：0：最少；1：轻微；2：中等；3：高的；4：严重

NFPA：美国防火协会对火灾烧烫之危害的等级

HMIS：危害物质系统应用于产品危害等级。

编制时间：2019 年 04 月 20 日

修订时间：2020 年 11 月 17 日

编制部门：四海科技开发部

本信息依据的技术资料是可靠的。当获得进一步信息和经验时，将进行修订。

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四海科技产品承认书

助焊剂 F102K31 资料 MSDS 变更履历信息

时间	栏目名称	变更前	变更后	变更说明
2020.11.17	第九部分 PH		2-4	精细化各产品数据

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Safety Data Sheet (SDS)
according to (EC) 1907/2006 (REACH)

物质安全数据表 (SDS)
遵照(EC) 1907/2006 (REACH)

(TRADE) NAME OF THE CHEMICAL

化学品名

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

第一部分 物质/配制品/公司名称

1.1 Identification of the chemical (substance or preparation)

化学品（物质或配制品）名称： LAMP LED

1.2 Use of the chemical

化学品用途:用于照明、指示、显示、灯饰用。

1.3 Company identification

公司信息

Company name 公司名: 东莞市虹鼎光电科技有限公司
Address 地址 : 东莞市长安镇沙头社区翰途科技园D栋11楼
Country 国家 : China
Telephone number 电话 : 0769-81622110
Fax number 传真 : 0769-81622110
E-Mail (person responsible for SDS) 责任人邮箱 : 196171173@qq.com.cn
F-Date of latest version SDS 最新版日期 : 2020.6.10

1.4 Emergency Telephone

应急电话:0769-81622110

In case of an emergency, please contact:

紧急情况请联系: 沈发高

SECTION 2. HAZARDS IDENTIFICATION

第二部分 危险鉴定

无危害.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

第三部分 成分组成信息

3.1 General Chemical Description

总体化学品描述：发光二极管。

3.2 Base Substances of Preparation

配制品基本成分

Description 零件名称	Base Material 材质	Sub Total (g) 材质重量	Substance 组成物质	CAS NO. CAS#	Amount% 含量%	Mass (g) 物质重量
Lead Frame	FeCuNiAgSn	0.104	Fe	7439-89-6	89%	0.092
			Cu	7440-50-8	2.5%	0.0025
			Ni	7440-02-0	2.5%	0.0025
			Ag	7440-22-4	1%	0.001
			Sn	7440-31-5	5%	0.006
LED CHIP	GAP+支架+胶	0.003	Indium(In)	7440-74-6	0.25%	
			Gallium(Ga)	7440-55-3	0.12%	
			Aluminum(Al)	7429-90-5	0.12%	
			Phosphorus (P)	7723-14-0	0.01%	
			Au	7740-57-5	0.08%	
			Epoxy resin	9003-36-5	0.02%	
			Silver (Ag)	7440-22-4	0.09%	
			Poly glycidyl end-capped	25036-25-3	56.15%	0.00168
			Formaldehyde, polymer with(chloromethyl)oxir ane and phenol	9003-36-5	12.30%	0.00036
			Epoxy cresol novolac resin	29690-82-2	8.03%	0.00024
			Glass fiber	65997-17-3	8.03%	0.0024
			Bisphenol A diglycidyl etherresin	25068-38-6	10.86%	0.0003
			Copper (Cu)	7440-50-8	2.16%	0.00006
Nickel (Ni)	7440-02-0	1.73%	0.00005			
Gold (Au)	7440-57-5	0.05%				
A/B EPOXY	EPOXY RESIN+HARDENER	0.0374	EPOXY RESIN	38891-59-7	50%	0.0187
			HARDENER	25550-51-0	50%	0.0187
SN	SN+SB	0.0037	SB	7440-36-0	15%	0.00055
			SN	7440-31-5	85%	0.00315
			松香	65997-05-9	NE	
			表面活性剂	10035-10-5	NE	
			活性剂	505-48-6	NE	
			有机溶剂	107-21-1	NE	

3.3 Declaration of Ingredients according to EC 1907/2006(REACH Regulation) (If necessary)

遵照EC 1907/2006(REACH)成分声明 (如果需要)

Hazardous components 危险成分	EC-No.	CAS-No.	Content(%orange) 浓度 (浓度范围)	Classification 分类
无	NA	NA	NA	NA

Please refer to section 16 for an overview of all R-phrases mentioned here.

涉及的所有风险分级 (R-phrases) 请参阅第十六部分。

SECTION 4. FIRST AID MEASURES

第四部分 急救措施

4.1 General information

一般建议

Exposure Route 接触途径	Specific First Aid Measures 具体急救措施
<i>Inhalation</i> 呼吸吸入	N/A
<i>Skin</i> 皮肤接触	N/A
<i>Eyecontact</i> 眼睛接触	N/A
<i>Ingestion</i> 食入	N/A

4.2 Advice to doctor

医生注意:N/A

SECTION 5. FIRE-FIGHTING MEASURES

第五部分 消防措施

5.1 Suitable fire-fighting equipment

合适的消防设备

	Suitable 适合	Unsuitable 不适合
Fire fighting equipment 消防设备	干粉、二氧化碳灭火器	/
Protection gear 保护用具	N/A	/

5.2 Dangerous decomposition products:

危险燃烧分解产物:N/A

5.3 Additional information for firefighters

消防员需注意的附加信息:N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

第六部分 泄露应急处理

6.1 Personal precautions

人员的预防措施:N/A

6.2 Environmental precautions

环境预防措施:N/A

6.3 Methods for cleaning up/taking up

清除的方法:N/A

SECTION 7. HANDLING AND STORAGE

第七部分 操作处置和储存

7.1 Handling

安全处理措施：N/A

7.2 Storage

安全贮存条件:在室温下储存。

7.3 Specific use(s)

特殊用途：N/A.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

第八部分 接触控制/个人防护

8.1 Exposure limit values

最大暴露浓度

8.2 Exposure controls

暴露控制:N/A

Occupational exposure controls

职业接触控制

(a) Respiratory protection 呼吸系统防护:N/A

(b) Hand protection 手防护:N/A

(c) Eye protection 眼睛防护:N/A

(d) Skin protection 皮肤防护:N/A

Environmental exposure controls

环境暴露控制:在室温下储存。

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

第九部分 理化特性

9.1 General information

常规信息

Appearance 外观: 圆形、方形。

Odour 气味:无气味。

9.2 Important health, safety and environmental information

重要健康、安全和环保信息

Acidity/pH pH 值	N/A
Boiling point/boiling range 沸点/沸程	N/A
Flash point 闪点	N/A
Flammability (solid, gas) 易燃性 (固体, 气体)	N/A
Explosive properties 爆炸特性	N/A
Oxidising properties 氧化性	在高温高湿环境下储存外部引脚易氧化
Vapour pressure 蒸汽压力	N/A
Relative density 相对密度	N/A
Solubility 溶解度	N/A
Water solubility 水溶性	N/A
Partition coefficient: n-octanol/water 分配系数: 辛醇/水	N/A

Viscosity 粘度	N/A
Vapour density 蒸汽密度	N/A
Evaporation rate 蒸发率	N/A

9.3 Other information

其它信息:N/A.

SECTION 10. STABILITY AND REACTIVITY

第十部分 稳定性和反应活性

10.1 Conditions to avoid

应避免的情况

- 1.避免在高温高湿环境下存放
- 2.使用时避免拉扯支架
- 3.避免在大电流、大电压下使用

10.2 Materials to avoid

应避免接触的物质： N/A

10.3 Hazardous decomposition products

危害分解产物:N/A

SECTION 11. TOXICOLOGICAL INFORMATION

第十一部分 毒理学资料

Acute oral toxicity 急性经口毒性:

N/A

Acute dermal toxicity 急性经皮毒性:

N/A

Acute inhalational toxicity 急性吸入毒性:

N/A

Irritant effect on skin 皮肤的刺激

N/A

Irritant effect on eye 眼睛的刺激

N/A

Sensitization 过敏性

N/A

Carcinogenicity 致癌性

N/A

Mutagenicity 致畸性

N/A

Reproduction toxicity 生殖毒性

N/A

Accumulative toxic effect 累积毒性

N/A

SECTION 12. ECOLOGICAL INFORMATION

第十二部分 生态学资料

12.1 Ecotoxicity

生态毒理学

N/A

12.2 Mobility

流动性

N/A

12.3 Persistence and degradability

持久性和降解性

N/A

12.4 Bioaccumulative potential

生物累积的潜在可能性

N/A

12.5 Results of PBT assessment

PBT评估结果

N/A

12.6 Other adverse effects

其它不利影响

N/A

SECTION 13. DISPOSAL CONSIDERATIONS

第十三部分 废弃处理

废弃前应参照当地国家与地方法规，以确保正确的废弃物归类。

SECTION 14. TRANSPORT INFORMATION

第十四部分 运输信息

Classification according to ADR

陆地运输

未被列入危险物质

Classification according to IMDG

海运

未被列入危险物质

Classification according to IATA

航空运输

未被列入危险物质

SECTION 15. REGULATORY INFORMATION

第十五部分 法规信息

参考地方，国家和/EU国际法律法规

SECTION 16. OTHER INFORMATION

第十六部分 其它信息

- list of all R phrases mentioned in the document 本档中涉及物质的风险分级列表
- recommended restrictions on use 关于用途的推荐性限制
- sources of key data used to compile the Safety Data Sheet. 该安全资料表的关键数据源

检测报告

编号: SHAEC25031515526

日期: 2025 年 12 月 04 日

第 2 页, 共 7 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A9	SHA25-0315155-0001.C009	金色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A9
铅 (Pb)	1000	mg/kg	2	27
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND



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SGS-CSI 检测技术服务(上海)有限公司
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检测报告

编号: SHAEC25031515526

日期: 2025 年 12 月 04 日

第 3 页, 共 7 页

检测项目	限值	单位	MDL	A9
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ =
 - a. 当六价格的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价格;
 - b. 当六价格的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价格;
 - c. 当六价格的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价格, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价格检测结果仅能代表检测时样品含六价格的状态。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。
 除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。
 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



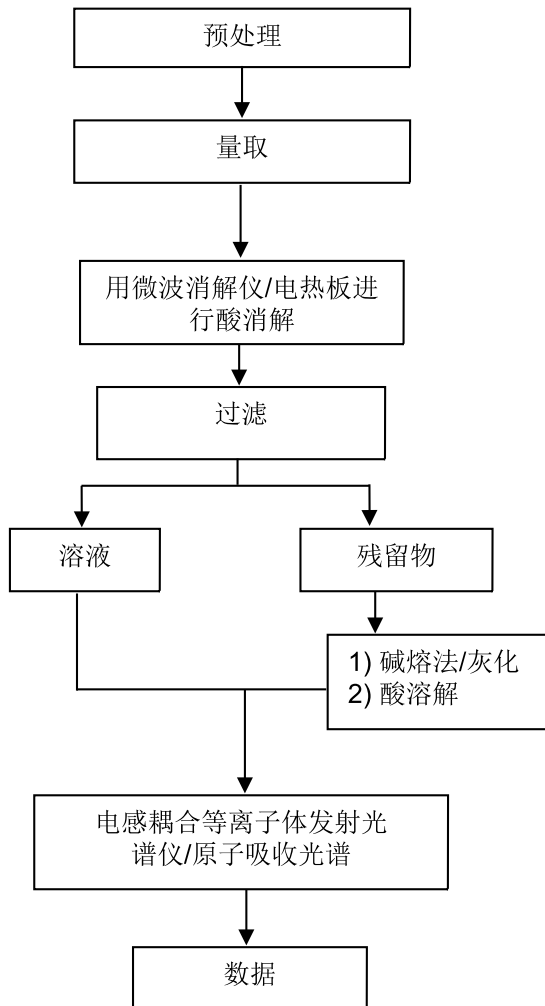
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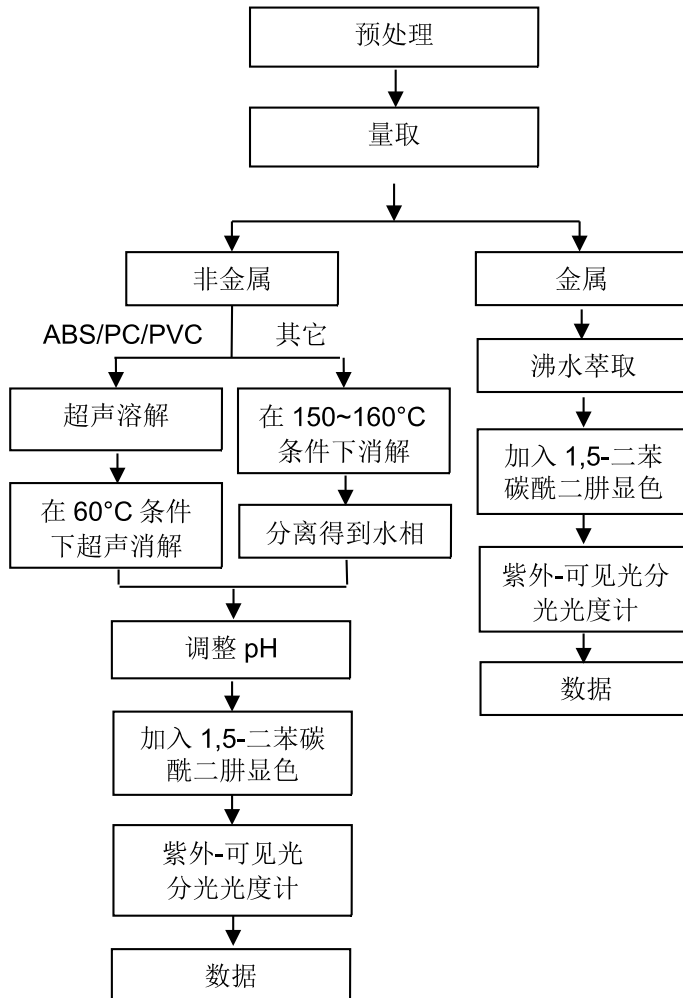
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元素检测流程图

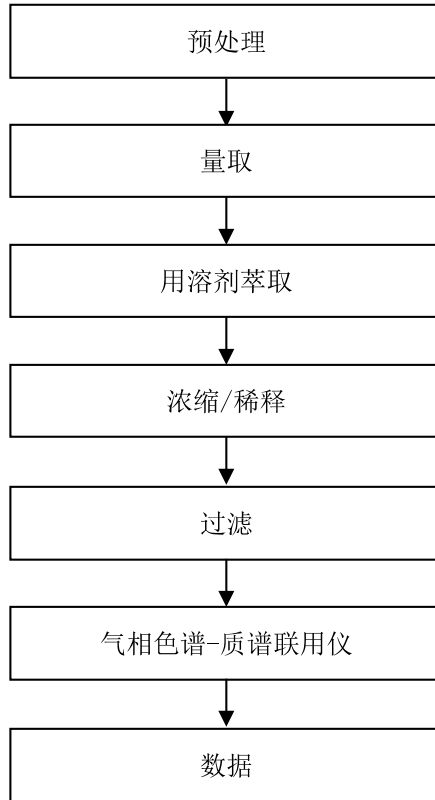
样品按照下述流程被完全消解



六价铬检测流程图



PBB(s)/PBDE(s)/Phthalates 检测流程图



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检测报告

编号: SHAEC25031515526

日期: 2025 年 12 月 04 日

第 7 页, 共 7 页

样品照片:



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检测报告
(SVHC)

编号: SHAEC25031515528

日期: 2025 年 12 月 04 日

第 1 页, 共 13 页

客户名称: 江西云泰铜业有限公司
客户地址: 江西省贵溪市经济开发区南环 8 号

样品名称: C2680
客户参考信息: H65

以上样品及信息由客户提供。

SGS 工作编号: SHP25-040688

样品接收时间: 2025 年 11 月 28 日

检测周期: 2025 年 11 月 28 日 ~ 2025 年 12 月 04 日

检测要求: 根据客户要求, 筛分候选清单中的 SVHC:
(i) 基于欧洲化学品管理署截止 2025 年 11 月 5 日公布的供授权审议的高关注物质候选清单(根据欧盟第 1907/2006 号 REACH 法规), 对 251 项高关注物质(SVHC)进行筛分检测。

根据客户要求, 筛分潜在的 SVHC:

(i) 对 1 项潜在的待定高关注物质(SVHC)进行筛分检测。

(ii) 基于欧洲化学品管理署截止 2025 年 11 月 5 日公布的潜在的高关注物质咨询清单(根据欧盟第 1907/2006 号 REACH 法规), 对 3 种高关注物质(SVHC)进行筛分检测。

检测方法: 见后续页。

检测结果: 见后续页。

总结:

根据具体的范围和筛分检测, 所提交样品中供授权审议的高关注物质候选清单所属 251 项 SVHC 结果 $\leq 0.1\%$ (w/w)。	通过
根据具体的范围和筛分检测, 所提交样品中 4 项潜在的 SVHC 结果 $\leq 0.1\%$ (w/w)。	通过

通标标准技术服务(上海)有限公司
授权签名

罗萍

Carol Luo 罗萍
批准签署人

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备注:

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。

<http://echa.europa.eu/web/guest/candidate-list-table>

这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。

2. REACH 法规义务:

2.1 关于物品:

告知:

欧盟第 1907/2006 (EC) 号法规第 33 条规定, 含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

通报:

根据欧盟第 1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第 57 条中的标准并根据第 59 条第一款被确定, 物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

自 2021 年 1 月 5 日起, 在欧盟市场上供应候选清单上浓度高于 0.1% 重量比 (w/w) 的高关注物质 (SVHC) 的物品的公司必须遵守废物框架指令 2008/98/EC 要求, 并向 ECHA 提交有关这些物品的 SCIP 通知。

2.2 关于材料:

报告中的检测结果是基于检测样品。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

如果样品是一种物质或混合物, 并且直接出口到欧盟, 客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

2.3 关于物质和配制品:

如果样品中高关注物质的浓度超过 0.1% (w/w) 和/或欧盟第 1272/2008 号 CLP 法规及其修订中设定的特殊浓度限值, 建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表 (SDS) 以符合供应链通信的义务, 如

-根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。

-根据欧盟第 1272/2008 号 CLP 法规被列为有害混合物, 而当中物质的浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的浓度限值;或

-根据欧盟第 1272/2008 号 CLP 法规并未列为有害混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物 (即非气体混合物) 中其浓度 $\geq 1\%$ (w/w) 或在气体混合物中占体积 $\geq 0.2\%$, 或

(b) PBT 或 vPvB 物质, 在固体或液体混合物 (即非气体混合物) 中个别浓度 $\geq 0.1\%$ (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质 (除上述以外的原因) 在个别非气体混合物中的浓度 $\geq 0.1\%$ (w/w), 或

(d) 设有欧洲范围内工作场所接触限值的物质。

3. 如果样品中 SVHC 的检测结果超过报告限, 建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。



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检测报告
(SVHC)

编号: SHAEC25031515528

日期: 2025 年 12 月 04 日

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检测样品:

检测组:

检测结果 ID	样品描述	检测部件 ID	SGS 样品 ID
001	金色金属	A9	SHA25-0315155-0001.C009

检测方法:

参考 SGS 内部方法, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法进行分析。

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Chemical Laboratory

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候选清单中的 SVHC 结果

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
-	所有候选清单中的 SVHC	-	ND	-

潜在的 SVHC 结果

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
/	所有潜在的 SVHC	-	ND	-

备注:

(1) 上表仅显示检出的 SVHC, 低于 RL 的 SVHC 没有列出。所有检测的 SVHC 请参见附录。

(2) RL = 报告限 (当检测结果 \geq RL 时显示数据。RL 不同于法规限值。)

ND = 未检测到 (<RL), ND 针对 SVHC 物质。

(3) * 结果是由选定的元素结果基于最坏的情况计算, 并根据物质用途和材料特性评估得出;

** 结果是由选定的标记物的结果并基于最坏的情况计算得出。

硼化合物的结果由 ICP-OES 检测的水提取硼元素结果换算得出。

四氧化二硼钡的结果由 ICP-OES 检测的水提取硼和钡元素结果换算得出。

RL = 0.005% 是针对元素 (例如钴、砷、铅、铬、铬(VI)、铝、镉、硼、锑、锌、铋、钛、钡、镉), 除了钨的 RL=0.0005%, 硼的 RL=0.0025% (仅对四氟硼酸铅), 氟的 RL=0.050%。

(4) § 只有当物质包含米氏酮 (CAS No.: 90-94-8) 或米氏碱 (CAS No.: 101-61-1) 的浓度 \geq 0.1% (w/w) 的情况下, 该物质才被提议定为 SVHC。

(5) / = 潜在的 SVHC

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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附录:

所有测试的 SVHC

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.050
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.050
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.050
I	4	蒽	120-12-7	0.050
I	5	邻苯二甲酸丁酯(BBP)	85-68-7	0.050
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.050
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.050
I	8	二氯化钴*	7646-79-9	0.005
I	9	五氧化二砷*	1303-28-2	0.005
I	10	三氧化二砷*	1327-53-3	0.005
I	11	邻苯二甲酸二丁酯(DBP)	84-74-2	0.050
I	12	六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	砷酸氢铅*	7784-40-9	0.005
I	14	重铬酸钠*	10588-01-9 /7789-12-0	0.005
I	15	三乙基砷酸酯*	15606-95-8	0.005
II	16	2,4-二硝基甲苯	121-14-2	0.050
II	17	葱油**	90640-80-5	0.050
II	18	葱油, 葱糊**	90640-81-6	0.050
II	19	葱油, 葱糊, 葱馏分**	91995-15-2	0.050
II	20	葱油, 葱糊, 轻油**	91995-17-4	0.050
II	21	葱油, 含葱量少**	90640-82-7	0.050
II	22	邻苯二甲酸二异丁酯	84-69-5	0.050
II	23	铬酸铅*	7758-97-6	0.005
II	24	钼铬红(C.I.颜料红 104)*	12656-85-8	0.005
II	25	铅铬黄(C.I.颜料黄 34)*	1344-37-2	0.005
II	26	沥青, 煤焦油, 高温**	65996-93-2	0.050
II	27	磷酸三(2-氯乙基)酯	115-96-8	0.050
II	28	丙烯酰胺	79-06-1	0.050
III	29	重铬酸铵*	7789-09-5	0.005
III	30	硼酸*	-	0.005
III	31	无水四硼酸钠*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	铬酸钾*	7789-00-6	0.005
III	33	重铬酸钾*	7778-50-9	0.005
III	34	铬酸钠*	7775-11-3	0.005
III	35	水合硼酸钠*	12267-73-1	0.005
III	36	三氯乙烯	79-01-6	0.050
IV	37	乙二醇乙醚	110-80-5	0.050



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批次	序号	物质名称	CAS No.	RL (%)
IV	38	乙二醇单甲醚	109-86-4	0.050
IV	39	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	-	0.005
IV	40	三氧化铬*	1333-82-0	0.005
IV	41	碳酸钴*	513-79-1	0.005
IV	42	乙酸钴*	71-48-7	0.005
IV	43	硝酸钴*	10141-05-6	0.005
IV	44	硫酸钴*	10124-43-3	0.005
V	45	1,2,3-三氯丙烷	96-18-4	0.050
V	46	1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	0.050
V	47	1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	0.050
V	48	1-甲基-2-吡咯烷酮	872-50-4	0.050
V	49	乙二醇乙醚醋酸酯	111-15-9	0.050
V	50	联氨	302-01-2 /7803-57-8	0.050
V	51	铬酸锶*	7789-06-2	0.005
VI	52	1,2-二氯乙烷	107-06-2	0.050
VI	53	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.050
VI	54	2-甲氧基苯胺	90-04-0	0.050
VI	55	对特辛基苯酚	140-66-9	0.050
VI	56	硅酸铝耐火陶瓷纤维*	-	0.005
VI	57	砷酸*	7778-39-4	0.005
VI	58	二乙二醇二甲醚	111-96-6	0.050
VI	59	邻苯二甲酸二甲氧基乙酯	117-82-8	0.050
VI	60	砷酸钙*	7778-44-1	0.005
VI	61	铬酸铬*	24613-89-6	0.005
VI	62	甲醛与苯胺的低聚物	25214-70-4	0.050
VI	63	叠氮化铅*	13424-46-9	0.005
VI	64	苦味酸铅*	6477-64-1	0.005
VI	65	史蒂芬酸铅*	15245-44-0	0.005
VI	66	N,N-二甲基乙酰胺	127-19-5	0.050
VI	67	氢氧化铬酸锌*	49663-84-5	0.005
VI	68	酚酞	77-09-8	0.050
VI	69	氢氧化铬酸锌钾*	11103-86-9	0.005
VI	70	砷酸铅*	3687-31-8	0.005
VI	71	氧化锆硅酸铝耐火陶瓷纤维*	-	0.005
VII	72	C.I.碱性蓝 26§	2580-56-5	0.050
VII	73	C.I.碱性紫 3§	548-62-9	0.050
VII	74	三乙二醇二甲醚(TEGDME)	112-49-2	0.050
VII	75	乙二醇二甲醚(EGDME)	110-71-4	0.050
VII	76	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	0.050
VII	77	4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇§	561-41-1	0.050
VII	78	三氧化二硼*	1303-86-2	0.005



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检测报告
(SVHC)

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日期: 2025 年 12 月 04 日

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批次	序号	物质名称	CAS No.	RL (%)
VII	79	甲酰胺	75-12-7	0.050
VII	80	甲基磺酸铅*	17570-76-2	0.005
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.050
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮(TGIC)	2451-62-9	0.050
VII	83	C.I.溶剂蓝 4§	6786-83-0	0.050
VII	84	1,3,5-三-[(2S 和 2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β-TGIC)	59653-74-6	0.050
VIII	85	二盐基邻苯二甲酸铅*	69011-06-9	0.005
VIII	86	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.050
VIII	87	乙二醇二乙醚	629-14-1	0.050
VIII	88	1-溴丙烷	106-94-5	0.050
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.050
VIII	90	对特辛基苯酚乙氧基醚	-	0.050
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.050
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.050
VIII	93	4-氨基偶氮苯	60-09-3	0.050
VIII	94	2,4-二氨基甲苯	95-80-7	0.050
VIII	95	4-壬基(支链与直链)苯酚	-	0.050
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.050
VIII	97	碱式乙酸铅*	51404-69-4	0.005
VIII	98	4-氨基联苯	92-67-1	0.050
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.050
VIII	100	环己烷-1,2-二羧酸酐, 顺式-环己烷-1,2-二羧酸酐, 反式-环己烷-1,2-二羧酸酐	-	0.050
VIII	101	偶氮二甲酰胺	123-77-3	0.050
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.050
VIII	103	硫酸二乙酯	64-67-5	0.050
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.050
VIII	105	硫酸二甲酯	77-78-1	0.050
VIII	106	地乐酚	88-85-7	0.050
VIII	107	双(十八烷基)二氧化三铅*	12578-12-0	0.005
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.005
VIII	109	呋喃	110-00-9	0.050
VIII	110	全氟十一烷酸	2058-94-8	0.050
VIII	111	全氟十四烷酸	376-06-7	0.050
VIII	112	甲基六氢邻苯二甲酸酐,4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐,3-甲基六氢邻苯二甲酸酐	-	0.050
VIII	113	四氟硼酸铅*	13814-96-5	0.005
VIII	114	氨基氰铅盐*	20837-86-9	0.005
VIII	115	硝酸铅*	10099-74-8	0.005



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批次	序号	物质名称	CAS No.	RL (%)
VIII	116	一氧化铅*	1317-36-8	0.005
VIII	117	碱式硫酸铅*	12036-76-9	0.005
VIII	118	四氧化三铅*	1314-41-6	0.005
VIII	119	钛酸铅*	12060-00-3	0.005
VIII	120	钛酸铅锆*	12626-81-2	0.005
VIII	121	甲氧基乙酸	625-45-6	0.050
VIII	122	1,2-环氧丙烷	75-56-9	0.050
VIII	123	N,N-二甲基甲酰胺	68-12-2	0.050
VIII	124	N-甲基乙酰胺	79-16-3	0.050
VIII	125	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.050
VIII	126	邻-氨基偶氮甲苯	97-56-3	0.050
VIII	127	2-氨基甲苯	95-53-4	0.050
VIII	128	全氟十三烷酸	72629-94-8	0.050
VIII	129	硫酸四氧化五铅*	12065-90-6	0.005
VIII	130	铅锑黄*	8012-00-8	0.005
VIII	131	掺杂铅的硅酸钡*	68784-75-8	0.005
VIII	132	硅酸铅*	11120-22-2	0.005
VIII	133	二碱式亚硫酸铅*	62229-08-7	0.005
VIII	134	四乙基铅*	78-00-2	0.005
VIII	135	硫酸三氧化四铅*	12202-17-4	0.005
VIII	136	全氟十二烷酸	307-55-1	0.050
VIII	137	碱式碳酸铅*	1319-46-6	0.005
VIII	138	二碱式亚磷酸铅*	12141-20-7	0.005
IX	139	4-壬基(支链与直链)苯酚乙氧基醚	-	0.050
IX	140	全氟辛酸铵(APFO)**	3825-26-1	0.050
IX	141	氧化镉*	1306-19-0	0.005
IX	142	镉	7440-43-9	0.005
IX	143	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.050
IX	144	全氟辛酸(PFOA)	335-67-1	0.050
X	145	硫化镉*	1306-23-6	0.005
X	146	邻苯二甲酸二正己酯	84-75-3	0.050
X	147	C.I.直接红 28	573-58-0	0.050
X	148	C.I.直接黑 38	1937-37-7	0.050
X	149	2-巯基咪唑啉	96-45-7	0.050
X	150	乙酸铅*	301-04-2	0.005
X	151	磷酸三二甲苯酯	25155-23-1	0.050
XI	152	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.050
XI	153	氯化镉*	10108-64-2	0.005
XI	154	水合过硼酸钠*	-	0.005
XI	155	过硼酸钠*	7632-04-4	0.005
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1	0.050



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检测报告
(SVHC)

编号: SHAEC25031515528

日期: 2025 年 12 月 04 日

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批次	序号	物质名称	CAS No.	RL (%)
XII	157	2-苯并三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7	0.050
XII	158	二正辛基-双(2-乙基己基巯基乙酸酯)锡 (DOTE)	15571-58-1	0.050
XII	159	氟化镉*	7790-79-6	0.005
XII	160	硫酸镉*	10124-36-4 /31119-53-6	0.005
XII	161	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.050
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	-	0.050
XIII	163	5-二级丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.050
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.050
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)	36437-37-3	0.050
XIV	167	硝基苯	98-95-3	0.050
XIV	168	全氟壬酸及其钠盐和铵盐	-	0.050
XV	169	苯并(a)芘	50-32-8	0.050
XVI	170	4,4'-异亚丙基联苯酚(双酚 A)	80-05-7	0.050
XVI	171	4-庚基(支链与直链)苯酚	-	0.050
XVI	172	全氟癸酸(PFDA)及其钠盐和铵盐	-	0.050
XVI	173	对叔戊基苯酚	80-46-6	0.050
XVII	174	全氟己烷-1-磺酸及其盐	-	0.050
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.050
XVIII	176	苯并蒽(BaA)	56-55-3	0.050
XVIII	177	硝酸镉*	10325-94-7	0.005
XVIII	178	碳酸镉*	513-78-0	0.005
XVIII	179	氢氧化镉*	21041-95-2	0.005
XVIII	180	蒽(CHR)	218-01-9	0.050
XVIII	181	1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链4-庚基苯酚的反应产物(RP-HP)[含有支链和直链4-庚基苯酚重量比≥0.1%]	-	0.050
XIX	182	1,2,4-苯三酸酐(偏苯三酸酐)(TMA)	552-30-7	0.050
XIX	183	苯并(g,h,i)芘(二萘嵌苯)(BPE)	191-24-2	0.050
XIX	184	十甲基环五硅氧烷(D5)	541-02-6	0.050
XIX	185	邻苯二甲酸二环己酯(DCHP)	84-61-7	0.050
XIX	186	氧化硼钠*	12008-41-2	0.005



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检测报告
(SVHC)

编号: SHAEC25031515528

日期: 2025年12月04日

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批次	序号	物质名称	CAS No.	RL (%)
XIX	187	十二甲基环六硅氧烷(D6)	540-97-6	0.050
XIX	188	乙二胺(EDA)	107-15-3	0.050
XIX	189	铅	7439-92-1	0.005
XIX	190	八甲基环四硅氧烷(D4)	556-67-2	0.050
XIX	191	氢化三联苯	61788-32-7	0.050
XX	192	1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮 (3-亚苄基樟脑)	15087-24-8	0.050
XX	193	4,4'-(1,3-二甲基丁基)二苯酚(1,3-DMBBP)	6807-17-6	0.050
XX	194	苯并(k)荧蒽(BkF)	207-08-9	0.050
XX	195	荧蒽(FLT)	206-44-0	0.050
XX	196	菲(PHE)	85-01-8	0.050
XX	197	芘(PYR)	129-00-0	0.050
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基 卤化物(包括单体和组合)(HFPO-DA)	-	0.050
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.050
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.050
XXI	201	三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP)	-	0.050
XXII	202	2-苄基-2-二甲氨基-4'-吗啉基苯基丁酮	119313-12-1	0.050
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.050
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.050
XXII	205	全氟丁烷磺酸及其盐	-	0.050
XXIII	206	1-乙烯基咪唑	1072-63-5	0.050
XXIII	207	2-甲基咪唑	693-98-1	0.050
XXIII	208	对羟基苯甲酸丁酯	94-26-8	0.050
XXIII	209	双(乙酰丙酮基)二丁基锡**	22673-19-4	0.050
XXIV	210	四乙二醇二甲醚	143-24-8	0.050
XXIV	211	二月桂酸二辛基锡及任何其他二辛基锡双(脂肪 酰氧基)衍生物**	-	0.050
XXV	212	1,4-二氧六环	123-91-1	0.050
XXV	213	二溴新戊二醇(BMP); 三溴新戊醇(TBNPA); 2,3-二溴-1-丙醇(2,3-DBPA)	-	0.050
XXV	214	铃兰醛及其立体异构体	-	0.050
XXV	215	双酚 B	77-40-7	0.050
XXV	216	戊二醛	111-30-8	0.050
XXV	217	中链氯化石蜡(MCCP)	-	0.050
XXV	218	原硼酸钠盐*	13840-56-7	0.005
XXV	219	对十二烷基苯酚及其异构体(PDDP)	-	0.050
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环 [2.2.1]庚-2-酮, 包括各个异构体和/或其组合(4- MBC)	-	0.050
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) (DBMC)	119-47-1	0.050



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批次	序号	物质名称	CAS No.	RL (%)
XXVI	222	S-(三环[5.2.1.0'2,6]癸-3-烯-8(或 9)-基) O-(异丙基或异丁基或 2-乙基己基) O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯	255881-94-8	0.050
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷	1067-53-4	0.050
XXVII	224	N-羟甲基丙烯酰胺	924-42-5	0.050
XXVIII	225	1,2-双(2,4,6-三溴苯氧基)乙烷	37853-59-1	0.050
XXVIII	226	四溴双酚 A	79-94-7	0.050
XXVIII	227	双酚 S	80-09-1	0.050
XXVIII	228	四氧化二硼钡*	13701-59-2	0.005
XXVIII	229	四溴邻苯二甲酸双(2-乙基己基)酯	-	0.050
XXVIII	230	对羟基苯甲酸异丁酯	4247-02-3	0.050
XXVIII	231	三聚氰胺	108-78-1	0.050
XXVIII	232	全氟庚酸及其盐类	-	0.050
XXVIII	233	全氟异丙基吗啉和全氟丙基吗啉混合物*	-	0.050
XXIX	234	双(4-氯苯基)砒	80-07-9	0.050
XXIX	235	二苯基(2,4,6-三甲基苯甲酰基)氧化膦	75980-60-8	0.050
XXX	236	2,4,6-三叔丁基苯酚	732-26-3	0.050
XXX	237	2-(2'-羟基-5'-叔辛基苯基)苯并三唑 (UV-329)	3147-75-9	0.050
XXX	238	2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苯基)-1-丁酮 (PI-379)	119344-86-4	0.050
XXX	239	布美三唑 (UV-326)	3896-11-5	0.050
XXX	240	2-苯基丙烯与苯酚的低聚和烷基化反应产物	-	0.050
XXXI	241	过氧化二异丙苯	80-43-3	0.050
XXXI	242	磷酸三苯酯	115-86-6	0.050
XXXII	243	6-[(C10-C13)-烷基-(支链, 不饱和)-2,5-二氧代吡咯烷-1-基]己酸	2156592-54-8	0.050
XXXII	244	O,O,O-三苯基硫代磷酸酯	597-82-0	0.050
XXXII	245	八甲基三硅氧烷	107-51-7	0.050
XXXII	246	全氟三丙胺	338-83-0	0.050
XXXII	247	三苯基硫代磷酸酯和叔丁基化苯基衍生物的反应产物	192268-65-8	0.050
XXXIII	248	甲基三(三甲基硅氧烷基)硅烷	17928-28-8	0.050
XXXIII	249	十甲基四硅氧烷	141-62-8	0.050
XXXIII	250	活性棕 51	-	0.050
XXXIV	251	十溴二苯乙烷(DBDPE)	84852-53-9	0.050
/	252	间苯二酚	108-46-3	0.050
/	253	正己烷	110-54-3	0.050
/	254	4,4'-二羟基二苯甲烷(BPF)	620-92-8	0.050
/	255	4,4'-[2,2,2-三氟-1-(三氟甲基)亚乙基]双酚 (BPAF)及其盐	-	0.050



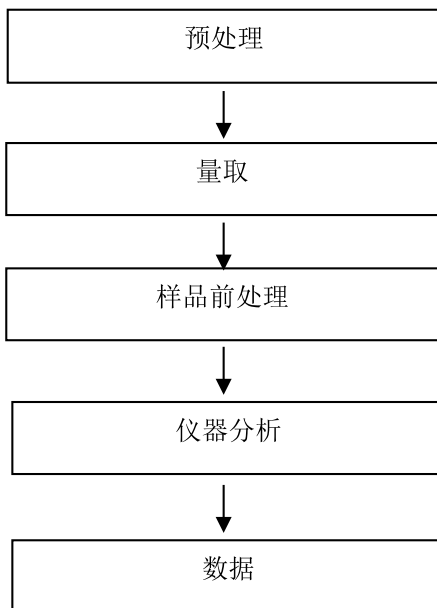
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附件

检测流程图



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检测报告 (SVHC)

编号: SHAEC25031515528

日期: 2025 年 12 月 04 日

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检测报告

编号: SHAEC25009262308

日期: 2025 年 04 月 27 日

第 1 页, 共 7 页

客户名称: 江西科美格新材料有限公司
客户地址: 江西省上饶市铅山县工业园区内

样品名称: C5210

以上样品及信息由客户提供。

SGS 工作编号: SHP25-012940
样品接收时间: 2025 年 04 月 23 日
检测周期: 2025 年 04 月 23 日 ~ 2025 年 04 月 27 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务(上海)有限公司
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Jenny Lan 兰柳珍
批准签署人

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检测报告

编号: SHAEC25009262308

日期: 2025年04月27日

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A4	SHA25-0092623-0001.C004	铜色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A4
铅 (Pb)	1000	mg/kg	2	25
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND



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检测报告

编号: SHAEC25009262308

日期: 2025年04月27日

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检测项目	限值	单位	MDL	A4
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ =
 - a. 当六价格的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价格;
 - b. 当六价格的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价格;
 - c. 当六价格的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价格, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价格检测结果仅能代表检测时样品含六价格的状态。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。
 除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。
 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



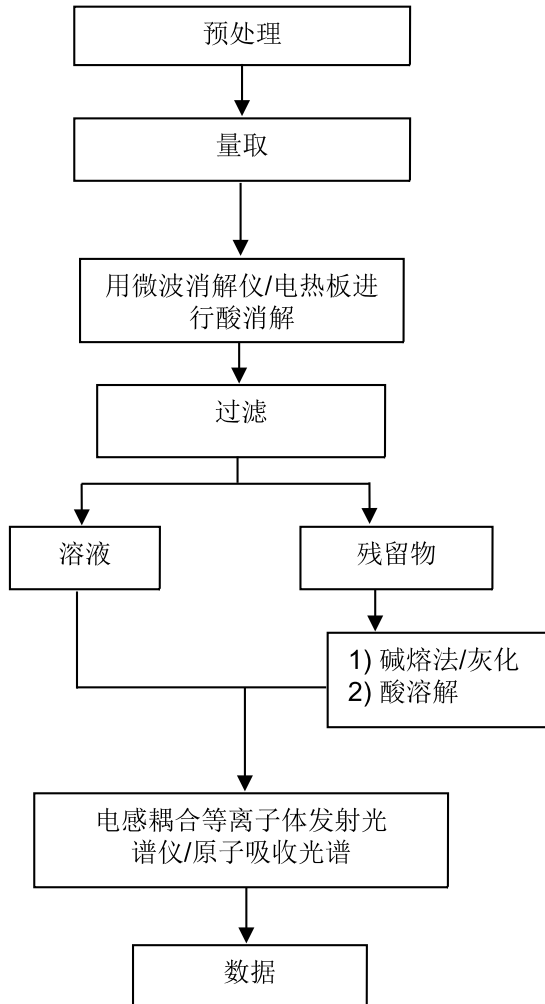
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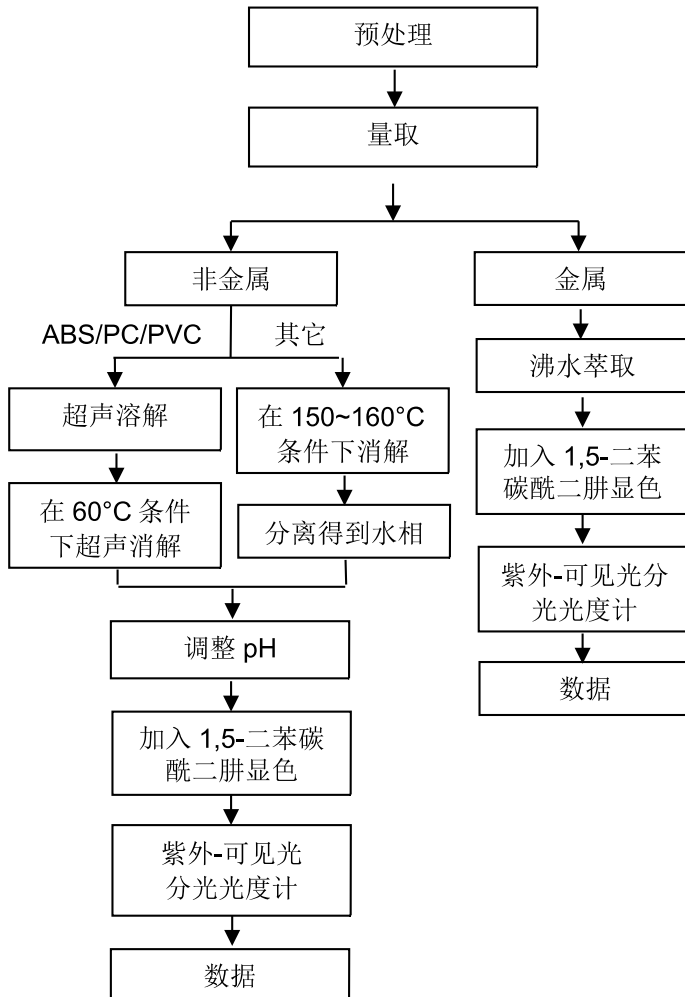
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元素检测流程图

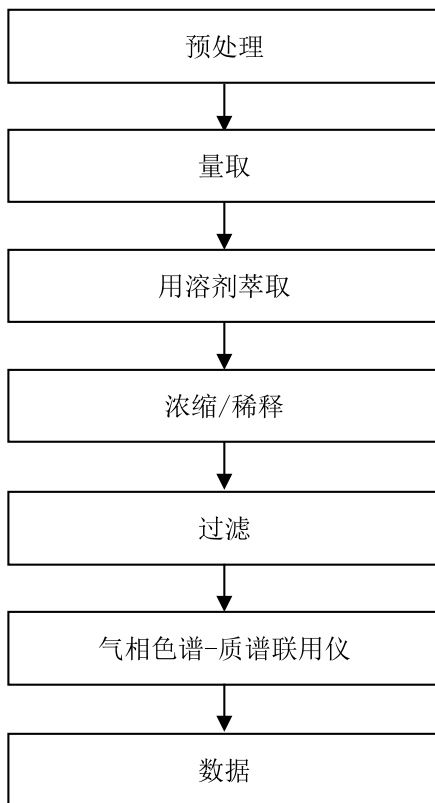
样品按照下述流程被完全消解



六价铬检测流程图



PBB/PBDE/Phthalates 检测流程图



检测报告

编号: SHAEC25009262308

日期: 2025年04月27日

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检测报告
(SVHC)

编号: SHAEC25029253804

日期: 2025 年 11 月 12 日

第 1 页, 共 13 页

客户名称: 江西科美格新材料有限公司
客户地址: 江西省上饶市铅山县工业园区内

样品名称: 锡磷青铜 C5210
以上样品及信息由客户提供。

SGS 工作编号: SHP25-037964
样品接收时间: 2025 年 11 月 06 日
检测周期: 2025 年 11 月 06 日 ~ 2025 年 11 月 12 日
检测要求: 根据客户要求, 筛分候选清单中的 SVHC:
(i) 基于欧洲化学品管理署截止 2025 年 11 月 5 日公布的供授权审议的高关注物质候选清单(根据欧盟第 1907/2006 号 REACH 法规), 对 251 项高关注物质(SVHC)进行筛分检测。
根据客户要求, 筛分潜在的 SVHC:
(i) 对 1 项潜在的待定高关注物质(SVHC)进行筛分检测。
(ii) 基于欧洲化学品管理署截止 2025 年 11 月 5 日公布的潜在的高关注物质咨询清单(根据欧盟第 1907/2006 号 REACH 法规), 对 3 种高关注物质(SVHC)进行筛分检测。

检测方法: 见后续页。
检测结果: 见后续页。

总结:

根据具体的范围和筛分检测, 所提交样品中供授权审议的高关注物质候选清单所属 251 项 SVHC 结果 $\leq 0.1\%$ (w/w)。	通过
根据具体的范围和筛分检测, 所提交样品中 4 项潜在的 SVHC 结果 $\leq 0.1\%$ (w/w)。	通过

通标标准技术服务(上海)有限公司
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张苏苏

Susu Zhang 张苏苏
批准签署人

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备注:

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。

<http://echa.europa.eu/web/guest/candidate-list-table>

这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。

2. REACH 法规义务:

2.1 关于物品:

告知:

欧盟第 1907/2006 (EC) 号法规第 33 条规定, 含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

通报:

根据欧盟第 1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第 57 条中的标准并根据第 59 条第一款被确定, 物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

自 2021 年 1 月 5 日起, 在欧盟市场上供应候选清单上浓度高于 0.1% 重量比 (w/w) 的高关注物质 (SVHC) 的物品的公司必须遵守废物框架指令 2008/98/EC 要求, 并向 ECHA 提交有关这些物品的 SCIP 通知。

2.2 关于材料:

报告中的检测结果是基于检测样品。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

如果样品是一种物质或混合物, 并且直接出口到欧盟, 客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

2.3 关于物质和配制品:

如果样品中高关注物质的浓度超过 0.1% (w/w) 和/或欧盟第 1272/2008 号 CLP 法规及其修订中设定的特殊浓度限值, 建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表 (SDS) 以符合供应链通信的义务, 如

-根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。

-根据欧盟第 1272/2008 号 CLP 法规被列为有害混合物, 而当中物质的浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的浓度限值;或

-根据欧盟第 1272/2008 号 CLP 法规并未列为有害混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物 (即非气体混合物) 中其浓度 $\geq 1\%$ (w/w) 或在气体混合物中占体积 $\geq 0.2\%$, 或

(b) PBT 或 vPvB 物质, 在固体或液体混合物 (即非气体混合物) 中个别浓度 $\geq 0.1\%$ (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质 (除上述以外的原因) 在个别非气体混合物中的浓度 $\geq 0.1\%$ (w/w), 或

(d) 设有欧洲范围内工作场所接触限值的物质。

3. 如果样品中 SVHC 的检测结果超过报告限, 建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。



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检测报告
(SVHC)

编号: SHAEC25029253804

日期: 2025 年 11 月 12 日

第 3 页, 共 13 页

检测样品:

检测组:

检测结果 ID	样品描述	检测部件 ID	SGS 样品 ID
001	铜色金属	A2	SHA25-0292538-0001.C002

检测方法:

参考 SGS 内部方法, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法进行分析。

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Chemical Laboratory

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检测报告 (SVHC)

编号: SHAEC25029253804

日期: 2025年11月12日

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候选清单中的 SVHC 结果

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
-	所有候选清单中的 SVHC	-	ND	-

潜在的 SVHC 结果

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
/	所有潜在的 SVHC	-	ND	-

备注:

(1) 上表仅显示检测到的 SVHC, 未报告 RL 以下的 SVHC。请参阅已检测 SVHC 的完整列表附录。

(2) RL = 报告限制 (如果检测数据 \geq RL, 将显示检测数据。RL 不是监管限制。)

ND = 未检测到 (低于 RL), ND 针对 SVHC 物质。

(3) * 结果是由选定的元素结果基于最坏的情况计算, 并根据物质用途和材料特性评估得出。

** 结果基于所选标记的计算和最坏情况。

硼化合物的结果由 ICP-OES 检测的水提取硼元素结果换算得出。

四氧化二硼钡的结果由 ICP-OES 检测的水提取硼和钡元素结果换算得出。

RL = 0.005% 是针对元素 (例如钴、砷、铅、铬、铬(VI)、铝、镉、硼、锑、锌、锑、钛、钡、镉), 除了钨的 RL = 0.0005%, 硼的 RL = 0.0025% (仅对四氟硼酸铅), 氟的 RL = 0.050%。

(4) § 只有当物质包含米氏酮 (CAS No.: 90-94-8) 或米氏碱 (CAS No.: 101-61-1) 的浓度 \geq 0.1% (w / w) 的情况下, 该物质才被提议定为 SVHC。

(5) / = 潜在的 SVHC

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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附录:

所有测试的 SVHC

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.050
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.050
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.050
I	4	蒽	120-12-7	0.050
I	5	邻苯二甲酸丁酯(BBP)	85-68-7	0.050
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.050
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.050
I	8	二氯化钴*	7646-79-9	0.005
I	9	五氧化二砷*	1303-28-2	0.005
I	10	三氧化二砷*	1327-53-3	0.005
I	11	邻苯二甲酸二丁酯(DBP)	84-74-2	0.050
I	12	六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	砷酸氢铅*	7784-40-9	0.005
I	14	重铬酸钠*	10588-01-9 /7789-12-0	0.005
I	15	三乙基砷酸酯*	15606-95-8	0.005
II	16	2,4-二硝基甲苯	121-14-2	0.050
II	17	葱油**	90640-80-5	0.050
II	18	葱油, 葱糊**	90640-81-6	0.050
II	19	葱油, 葱糊, 葱馏分**	91995-15-2	0.050
II	20	葱油, 葱糊, 轻油**	91995-17-4	0.050
II	21	葱油, 含葱量少**	90640-82-7	0.050
II	22	邻苯二甲酸二异丁酯	84-69-5	0.050
II	23	铬酸铅*	7758-97-6	0.005
II	24	钼铬红(C.I.颜料红 104)*	12656-85-8	0.005
II	25	铅铬黄(C.I.颜料黄 34)*	1344-37-2	0.005
II	26	沥青, 煤焦油, 高温**	65996-93-2	0.050
II	27	磷酸三(2-氯乙基)酯	115-96-8	0.050
II	28	丙烯酰胺	79-06-1	0.050
III	29	重铬酸铵*	7789-09-5	0.005
III	30	硼酸*	-	0.005
III	31	无水四硼酸钠*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	铬酸钾*	7789-00-6	0.005
III	33	重铬酸钾*	7778-50-9	0.005
III	34	铬酸钠*	7775-11-3	0.005
III	35	水合硼酸钠*	12267-73-1	0.005
III	36	三氯乙烯	79-01-6	0.050
IV	37	乙二醇乙醚	110-80-5	0.050



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批次	序号	物质名称	CAS No.	RL (%)
IV	38	乙二醇单甲醚	109-86-4	0.050
IV	39	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	-	0.005
IV	40	三氧化铬*	1333-82-0	0.005
IV	41	碳酸钴*	513-79-1	0.005
IV	42	乙酸钴*	71-48-7	0.005
IV	43	硝酸钴*	10141-05-6	0.005
IV	44	硫酸钴*	10124-43-3	0.005
V	45	1,2,3-三氯丙烷	96-18-4	0.050
V	46	1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	0.050
V	47	1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	0.050
V	48	1-甲基-2-吡咯烷酮	872-50-4	0.050
V	49	乙二醇乙醚醋酸酯	111-15-9	0.050
V	50	联氨	302-01-2 /7803-57-8	0.050
V	51	铬酸锶*	7789-06-2	0.005
VI	52	1,2-二氯乙烷	107-06-2	0.050
VI	53	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.050
VI	54	2-甲氧基苯胺	90-04-0	0.050
VI	55	对特辛基苯酚	140-66-9	0.050
VI	56	硅酸铝耐火陶瓷纤维*	-	0.005
VI	57	砷酸*	7778-39-4	0.005
VI	58	二乙二醇二甲醚	111-96-6	0.050
VI	59	邻苯二甲酸二甲氧基乙酯	117-82-8	0.050
VI	60	砷酸钙*	7778-44-1	0.005
VI	61	铬酸铬*	24613-89-6	0.005
VI	62	甲醛与苯胺的低聚物	25214-70-4	0.050
VI	63	叠氮化铅*	13424-46-9	0.005
VI	64	苦味酸铅*	6477-64-1	0.005
VI	65	史蒂芬酸铅*	15245-44-0	0.005
VI	66	N,N-二甲基乙酰胺	127-19-5	0.050
VI	67	氢氧化铬酸锌*	49663-84-5	0.005
VI	68	酚酞	77-09-8	0.050
VI	69	氢氧化铬酸锌钾*	11103-86-9	0.005
VI	70	砷酸铅*	3687-31-8	0.005
VI	71	氧化锆硅酸铝耐火陶瓷纤维*	-	0.005
VII	72	C.I.碱性蓝 26§	2580-56-5	0.050
VII	73	C.I.碱性紫 3§	548-62-9	0.050
VII	74	三乙二醇二甲醚(TEGDME)	112-49-2	0.050
VII	75	乙二醇二甲醚(EGDME)	110-71-4	0.050
VII	76	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	0.050
VII	77	4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇§	561-41-1	0.050
VII	78	三氧化二硼*	1303-86-2	0.005



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批次	序号	物质名称	CAS No.	RL (%)
VII	79	甲酰胺	75-12-7	0.050
VII	80	甲基磺酸铅*	17570-76-2	0.005
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.050
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H, 3H,5H)-三酮(TGIC)	2451-62-9	0.050
VII	83	C.I.溶剂蓝 4§	6786-83-0	0.050
VII	84	1,3,5-三-[(2S 和 2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β-TGIC)	59653-74-6	0.050
VIII	85	二盐基邻苯二甲酸铅*	69011-06-9	0.005
VIII	86	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.050
VIII	87	乙二醇二乙醚	629-14-1	0.050
VIII	88	1-溴丙烷	106-94-5	0.050
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.050
VIII	90	对特辛基苯酚乙氧基醚	-	0.050
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.050
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.050
VIII	93	4-氨基偶氮苯	60-09-3	0.050
VIII	94	2,4-二氨基甲苯	95-80-7	0.050
VIII	95	4-壬基(支链与直链)苯酚	-	0.050
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.050
VIII	97	碱式乙酸铅*	51404-69-4	0.005
VIII	98	4-氨基联苯	92-67-1	0.050
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.050
VIII	100	环己烷-1,2-二羧酸酐, 顺式-环己烷-1,2-二羧酸酐, 反式-环己烷-1,2-二羧酸酐	-	0.050
VIII	101	偶氮二甲酰胺	123-77-3	0.050
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.050
VIII	103	硫酸二乙酯	64-67-5	0.050
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.050
VIII	105	硫酸二甲酯	77-78-1	0.050
VIII	106	地乐酚	88-85-7	0.050
VIII	107	双(十八烷基)二氧化三铅*	12578-12-0	0.005
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.005
VIII	109	呋喃	110-00-9	0.050
VIII	110	全氟十一烷酸	2058-94-8	0.050
VIII	111	全氟十四烷酸	376-06-7	0.050
VIII	112	甲基六氢邻苯二甲酸酐,4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐,3-甲基六氢邻苯二甲酸酐	-	0.050
VIII	113	四氟硼酸铅*	13814-96-5	0.005
VIII	114	氨基氰铅盐*	20837-86-9	0.005
VIII	115	硝酸铅*	10099-74-8	0.005



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批次	序号	物质名称	CAS No.	RL (%)
VIII	116	一氧化铅*	1317-36-8	0.005
VIII	117	碱式硫酸铅*	12036-76-9	0.005
VIII	118	四氧化三铅*	1314-41-6	0.005
VIII	119	钛酸铅*	12060-00-3	0.005
VIII	120	钛酸铅锆*	12626-81-2	0.005
VIII	121	甲氧基乙酸	625-45-6	0.050
VIII	122	1,2-环氧丙烷	75-56-9	0.050
VIII	123	N,N-二甲基甲酰胺	68-12-2	0.050
VIII	124	N-甲基乙酰胺	79-16-3	0.050
VIII	125	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.050
VIII	126	邻-氨基偶氮甲苯	97-56-3	0.050
VIII	127	2-氨基甲苯	95-53-4	0.050
VIII	128	全氟十三烷酸	72629-94-8	0.050
VIII	129	硫酸四氧化五铅*	12065-90-6	0.005
VIII	130	铅锑黄*	8012-00-8	0.005
VIII	131	掺杂铅的硅酸钡*	68784-75-8	0.005
VIII	132	硅酸铅*	11120-22-2	0.005
VIII	133	二碱式亚硫酸铅*	62229-08-7	0.005
VIII	134	四乙基铅*	78-00-2	0.005
VIII	135	硫酸三氧化四铅*	12202-17-4	0.005
VIII	136	全氟十二烷酸	307-55-1	0.050
VIII	137	碱式碳酸铅*	1319-46-6	0.005
VIII	138	二碱式亚磷酸铅*	12141-20-7	0.005
IX	139	4-壬基(支链与直链)苯酚乙氧基醚	-	0.050
IX	140	全氟辛酸铵(APFO)**	3825-26-1	0.050
IX	141	氧化镉*	1306-19-0	0.005
IX	142	镉	7440-43-9	0.005
IX	143	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.050
IX	144	全氟辛酸(PFOA)	335-67-1	0.050
X	145	硫化镉*	1306-23-6	0.005
X	146	邻苯二甲酸二正己酯	84-75-3	0.050
X	147	C.I.直接红 28	573-58-0	0.050
X	148	C.I.直接黑 38	1937-37-7	0.050
X	149	2-巯基咪唑啉	96-45-7	0.050
X	150	乙酸铅*	301-04-2	0.005
X	151	磷酸三二甲苯酯	25155-23-1	0.050
XI	152	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.050
XI	153	氯化镉*	10108-64-2	0.005
XI	154	水合过硼酸钠*	-	0.005
XI	155	过硼酸钠*	7632-04-4	0.005
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1	0.050



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检测报告
(SVHC)

编号: SHAEC25029253804

日期: 2025年11月12日

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批次	序号	物质名称	CAS No.	RL (%)
XII	157	2-苯并三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7	0.050
XII	158	二正辛基-双(2-乙基己基巯基乙酸酯)锡 (DOTE)	15571-58-1	0.050
XII	159	氟化镉*	7790-79-6	0.005
XII	160	硫酸镉*	10124-36-4 /31119-53-6	0.005
XII	161	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.050
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	-	0.050
XIII	163	5-二级丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.050
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.050
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)	36437-37-3	0.050
XIV	167	硝基苯	98-95-3	0.050
XIV	168	全氟壬酸及其钠盐和铵盐	-	0.050
XV	169	苯并(a)芘	50-32-8	0.050
XVI	170	4,4'-异亚丙基联苯酚(双酚 A)	80-05-7	0.050
XVI	171	4-庚基(支链与直链)苯酚	-	0.050
XVI	172	全氟癸酸(PFDA)及其钠盐和铵盐	-	0.050
XVI	173	对叔戊基苯酚	80-46-6	0.050
XVII	174	全氟己烷-1-磺酸及其盐	-	0.050
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.050
XVIII	176	苯并蒽(BaA)	56-55-3	0.050
XVIII	177	硝酸镉*	10325-94-7	0.005
XVIII	178	碳酸镉*	513-78-0	0.005
XVIII	179	氢氧化镉*	21041-95-2	0.005
XVIII	180	蒽(CHR)	218-01-9	0.050
XVIII	181	1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链4-庚基苯酚的反应产物(RP-HP)[含有支链和直链4-庚基苯酚重量比≥0.1%]	-	0.050
XIX	182	1,2,4-苯三酸酐(偏苯三酸酐)(TMA)	552-30-7	0.050
XIX	183	苯并(g,h,i)芘(二萘嵌苯)(BPE)	191-24-2	0.050
XIX	184	十甲基环五硅氧烷(D5)	541-02-6	0.050
XIX	185	邻苯二甲酸二环己酯(DCHP)	84-61-7	0.050
XIX	186	氧化硼钠*	12008-41-2	0.005



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检测报告
(SVHC)

编号: SHAEC25029253804

日期: 2025年11月12日

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批次	序号	物质名称	CAS No.	RL (%)
XIX	187	十二甲基环六硅氧烷(D6)	540-97-6	0.050
XIX	188	乙二胺(EDA)	107-15-3	0.050
XIX	189	铅	7439-92-1	0.005
XIX	190	八甲基环四硅氧烷(D4)	556-67-2	0.050
XIX	191	氢化三联苯	61788-32-7	0.050
XX	192	1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮 (3-亚苈基樟脑)	15087-24-8	0.050
XX	193	4,4'-(1,3-二甲基丁基)二苯酚(1,3-DMBBP)	6807-17-6	0.050
XX	194	苯并(k)荧蒽(BkF)	207-08-9	0.050
XX	195	荧蒽(FLT)	206-44-0	0.050
XX	196	菲(PHE)	85-01-8	0.050
XX	197	芘(PYR)	129-00-0	0.050
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基 卤化物(包括单体和组合)(HFPO-DA)	-	0.050
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.050
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.050
XXI	201	三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP)	-	0.050
XXII	202	2-苄基-2-二甲氨基-4'-吗啉基苯基丁酮	119313-12-1	0.050
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.050
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.050
XXII	205	全氟丁烷磺酸及其盐	-	0.050
XXIII	206	1-乙烯基咪唑	1072-63-5	0.050
XXIII	207	2-甲基咪唑	693-98-1	0.050
XXIII	208	对羟基苯甲酸丁酯	94-26-8	0.050
XXIII	209	双(乙酰丙酮基)二丁基锡**	22673-19-4	0.050
XXIV	210	四乙二醇二甲醚	143-24-8	0.050
XXIV	211	二月桂酸二辛基锡及任何其他二辛基锡双(脂肪 酰氧基)衍生物**	-	0.050
XXV	212	1,4-二氧六环	123-91-1	0.050
XXV	213	二溴新戊二醇(BMP); 三溴新戊醇(TBNPA); 2,3-二溴-1-丙醇(2,3-DBPA)	-	0.050
XXV	214	铃兰醛及其立体异构体	-	0.050
XXV	215	双酚 B	77-40-7	0.050
XXV	216	戊二醛	111-30-8	0.050
XXV	217	中链氯化石蜡(MCCP)	-	0.050
XXV	218	原硼酸钠盐*	13840-56-7	0.005
XXV	219	对十二烷基苯酚及其异构体(PDDP)	-	0.050
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环 [2.2.1]庚-2-酮, 包括各个异构体和/或其组合(4- MBC)	-	0.050
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) (DBMC)	119-47-1	0.050



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批次	序号	物质名称	CAS No.	RL (%)
XXVI	222	S-(三环[5.2.1.0'2,6]癸-3-烯-8(或9)-基) O-(异丙基或异丁基或2-乙基己基) O-(异丙基或异丁基或2-乙基己基)二硫代磷酸酯	255881-94-8	0.050
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷	1067-53-4	0.050
XXVII	224	N-羟甲基丙烯酰胺	924-42-5	0.050
XXVIII	225	1,2-双(2,4,6-三溴苯氧基)乙烷	37853-59-1	0.050
XXVIII	226	四溴双酚 A	79-94-7	0.050
XXVIII	227	双酚 S	80-09-1	0.050
XXVIII	228	四氧化二硼钡*	13701-59-2	0.005
XXVIII	229	四溴邻苯二甲酸双(2-乙基己基)酯	-	0.050
XXVIII	230	对羟基苯甲酸异丁酯	4247-02-3	0.050
XXVIII	231	三聚氰胺	108-78-1	0.050
XXVIII	232	全氟庚酸及其盐类	-	0.050
XXVIII	233	全氟异丙基吗啉和全氟丙基吗啉混合物*	-	0.050
XXIX	234	双(4-氯苯基)砒	80-07-9	0.050
XXIX	235	二苯基(2,4,6-三甲基苯甲酰基)氧化膦	75980-60-8	0.050
XXX	236	2,4,6-三叔丁基苯酚	732-26-3	0.050
XXX	237	2-(2'-羟基-5'-叔辛基苯基)苯并三唑 (UV-329)	3147-75-9	0.050
XXX	238	2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苯基)-1-丁酮 (PI-379)	119344-86-4	0.050
XXX	239	布美三唑 (UV-326)	3896-11-5	0.050
XXX	240	2-苯基丙烯与苯酚的低聚和烷基化反应产物	-	0.050
XXXI	241	过氧化二异丙苯	80-43-3	0.050
XXXI	242	磷酸三苯酯	115-86-6	0.050
XXXII	243	6-[(C10-C13)-烷基-(支链, 不饱和)-2,5-二氧代吡咯烷-1-基]己酸	2156592-54-8	0.050
XXXII	244	O,O,O-三苯基硫代磷酸酯	597-82-0	0.050
XXXII	245	八甲基三硅氧烷	107-51-7	0.050
XXXII	246	全氟三丙胺	338-83-0	0.050
XXXII	247	三苯基硫代磷酸酯和叔丁基化苯基衍生物的反应产物	192268-65-8	0.050
XXXIII	248	甲基三(三甲基硅氧烷基)硅烷	17928-28-8	0.050
XXXIII	249	十甲基四硅氧烷	141-62-8	0.050
XXXIII	250	活性棕 51	-	0.050
XXXIV	251	十溴二苯乙烷(DBDPE)	84852-53-9	0.050
/	252	间苯二酚	108-46-3	0.050
/	253	正己烷	110-54-3	0.050
/	254	4,4'-二羟基二苯甲烷(BPF)	620-92-8	0.050
/	255	4,4'-[2,2,2-三氟-1-(三氟甲基)亚乙基]双酚 (BPAF)及其盐	-	0.050



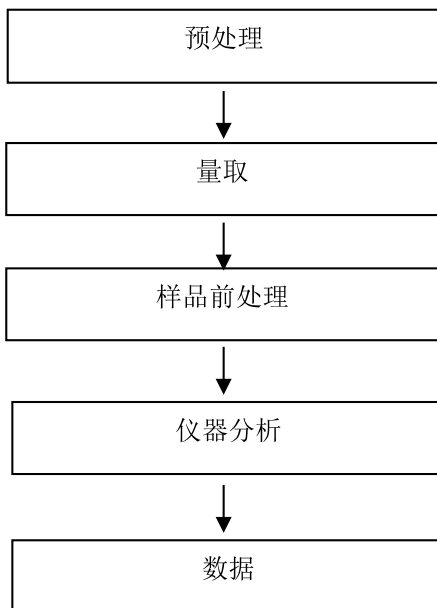
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附件

检测流程图



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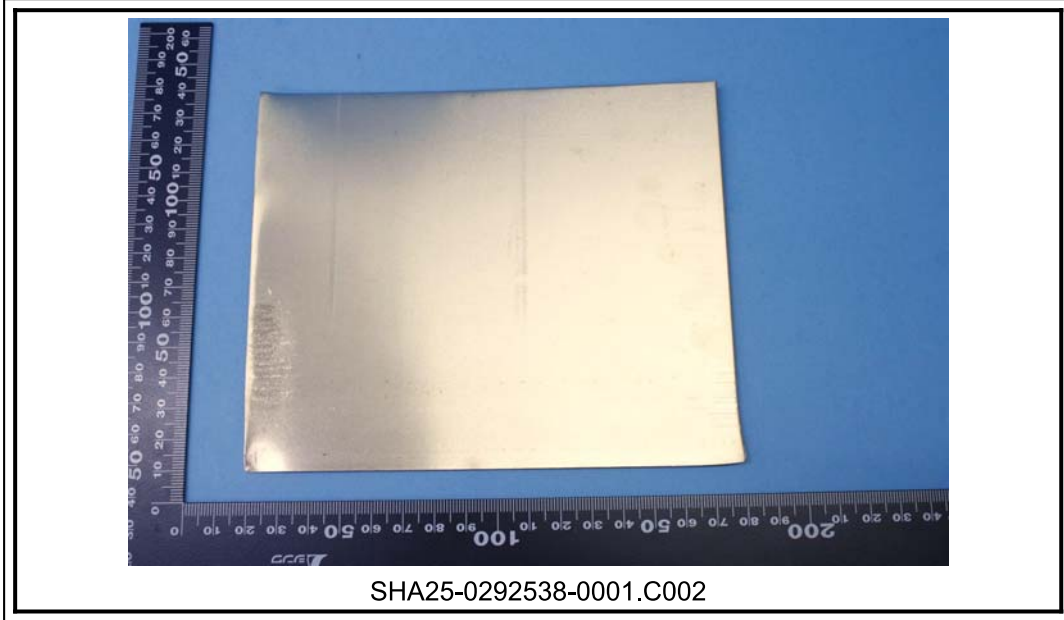
检测报告 (SVHC)

编号: SHAEC25029253804

日期: 2025年11月12日

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Test Report



Report No. A2250626065102001

Company Name shown on Report GUANGDONG ZHONGCHENG SPECIAL MATERIAL CO., LTD.

Address ROOM 101-501, BUILDING 22, AREA B, WANYANG ZHONGCHUANG CITY, NO.1 SHUANGYANG ROAD, YANGQIAO TOWN, BOLUO COUNTY, HUIZHOU CITY

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name LCP
Color Black
Sample Received Date Aug. 26, 2025
Testing Period Aug. 26, 2025 to Aug. 29, 2025

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).



Approved by

Iori Xia

Date

Aug. 29, 2025

Iori Xia

Lab Authorized Signatory

No. R262621765

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Report No. A2250626065102001

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS

Test Report

Report No. A2250626065102001

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	25 mg/kg
Dibromobiphenyl	N.D.	25 mg/kg
Tribromobiphenyl	N.D.	25 mg/kg
Tetrabromobiphenyl	N.D.	25 mg/kg
Pentabromobiphenyl	N.D.	25 mg/kg
Hexabromobiphenyl	N.D.	25 mg/kg
Heptabromobiphenyl	N.D.	25 mg/kg
Octabromobiphenyl	N.D.	25 mg/kg
Nonabromobiphenyl	N.D.	25 mg/kg
Decabromobiphenyl	N.D.	25 mg/kg
Tested Item(s)	Result	MDL
	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	25 mg/kg

Test Report

Report No. A2250626065102001

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Black plastic grains

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

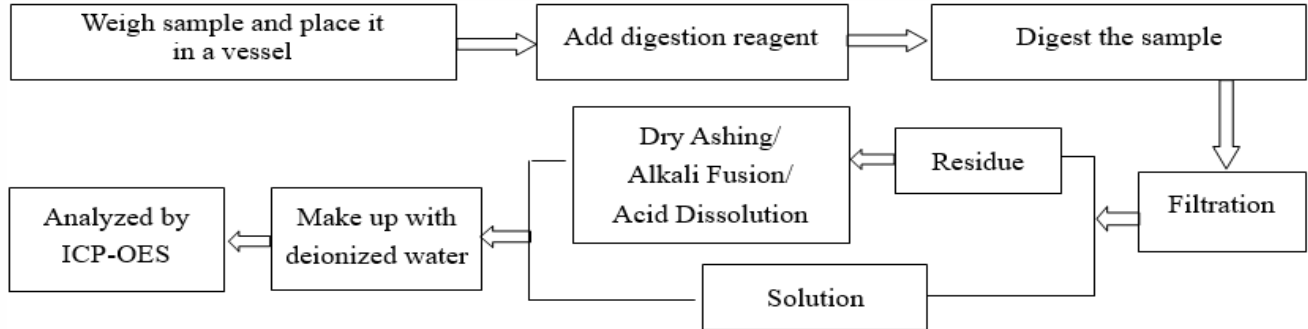
Test Report

Report No. A2250626065102001

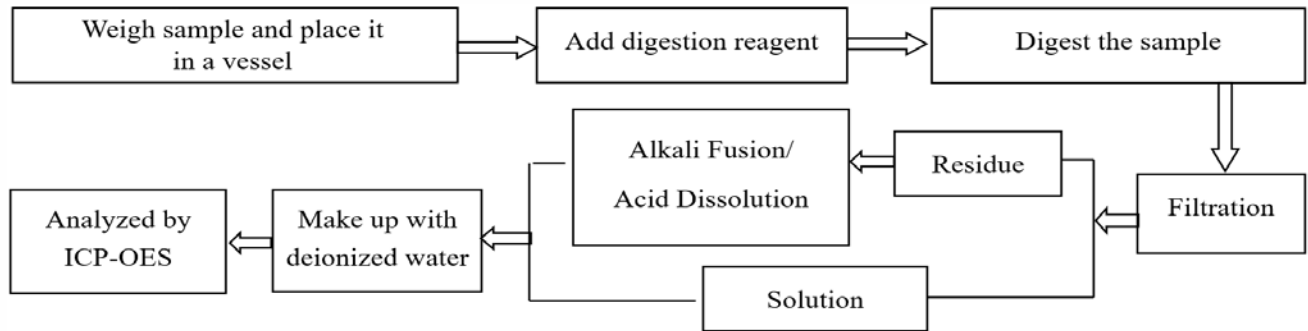
Page 5 of 7

Test Process

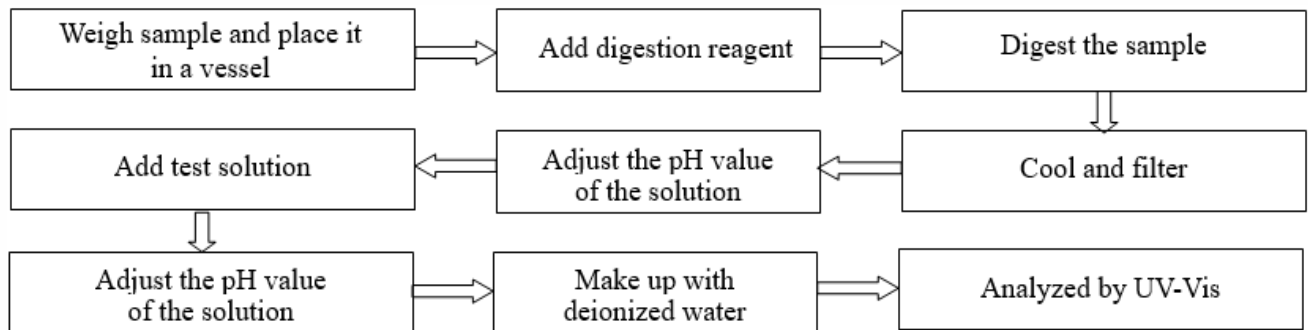
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



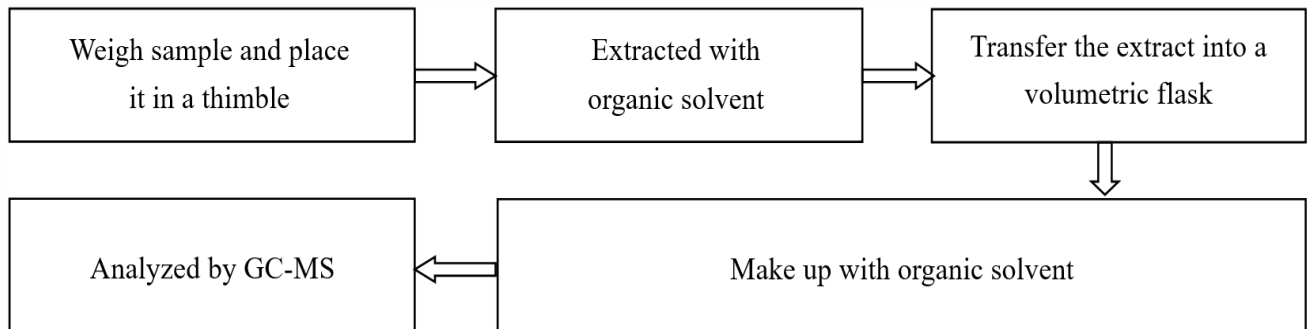
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

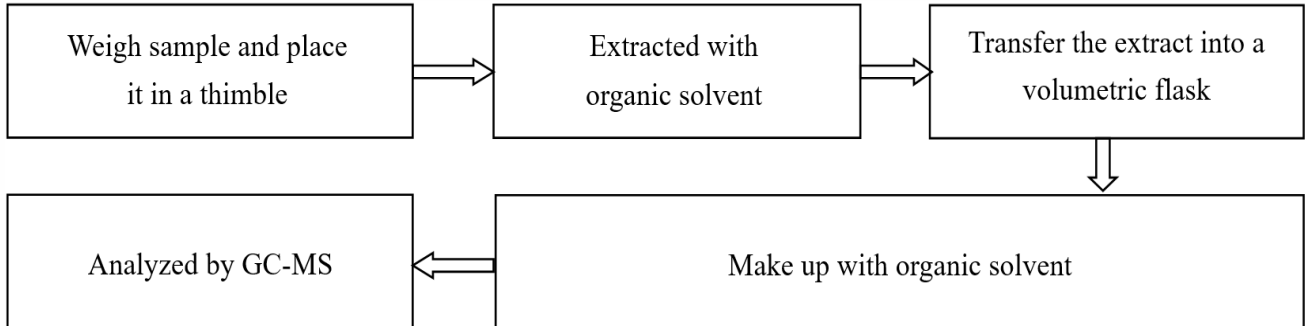


Test Report

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5. Phthalates (DBP, BBP, DEHP, DIBP)



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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report (SVHC)

No.: CANEC25028979502

Date: Nov 28, 2025

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Client Name: GUANGDONG ZHONGCHENG SPECIAL MATERIALS CO., LTD.

Client Address: ROOM 101-501,BLDG.22, AREA B, WANYANGZHONGCHUANG CITY,
NO.1,SHUANGYANG ROAD,YANGQIAO TOWN, BOLUO COUNTY, HUIZHOU CITY

Sample Name: LCP BK

Model No.: E130I

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-059667

Sample Receiving Date: Nov 21, 2025

Testing Period: Nov 21, 2025 ~ Nov 28, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:

(i) Two hundred and fifty-one (251) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Nov 5, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.

As requested by client, Potential SVHC screening is performed according to:

(i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.

(ii) Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Nov 5, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 251 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the results of 4 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie

Dongyu Xie
Approved Signatory

Scan to see the report



1A3D8488



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Guangzhou Branch

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
 Communication:
 Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Black plastic grains	A1	CAN25-0289795-0001.C001

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
 - (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
 - (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
 - (4) § The substance is proposed for the identification as SVHC only where it contains Michler’s ketone (CAS Number: 90-94-8) or Michler’s base (CAS Number: 101-61-1) ≥0.1% (w/w).
 - (5) / = Potential SVHC
- The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong

Remark: Results & photo(s) of this report refer to test report CANEC25028979501.
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix:

Full list of tested SVHC

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
XXXIII	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
XXXIII	249	Decamethyltetrasiloxane	141-62-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXXIII	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.050
XXXIV	251	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	0.050
/	252	Resorcinol	108-46-3	0.050
/	253	n-hexane	110-54-3	0.050
/	254	4,4'-methylenediphenol (BPF)	620-92-8	0.050
/	255	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF) and its salts	-	0.050



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Guangzhou Branch Technical Laboratory

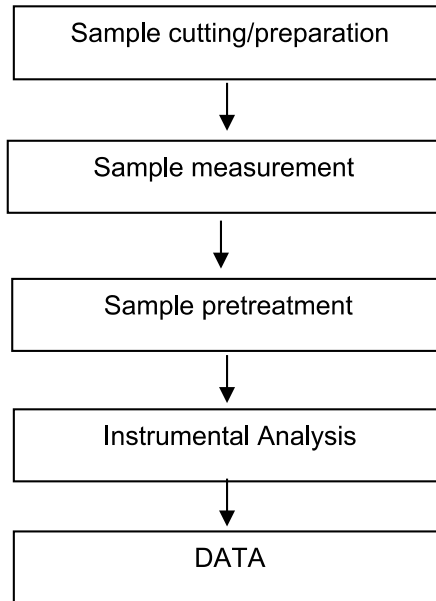
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Testing Flow Chart



Test Report (SVHC)

No.: CANEC25028979502

Date: Nov 28, 2025

Page 15 of 15

Sample photos:



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Test Report

No.: SZXEC25000757301

Date: Mar 19, 2025

Page 1 of 7

Client Name: DONGGUAN XIN HE CHENG METAL SURFACE TREATMENT CO.,LTD.

Client Address: ROOM 601, BUILDING 35, 126 GUANGMA AVENUE, MAYONG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Gold coatings

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-010777

Sample Receiving Date: Mar 13, 2025

Testing Period: Mar 13, 2025 ~ Mar 19, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford Shi
Approved Signatory

Scan to see the report



0A8C7672



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX25-0007573-0001.C001	Copper metal with golden plating

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	47
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Test Report

No.: SZXEC25000757301

Date: Mar 19, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A1
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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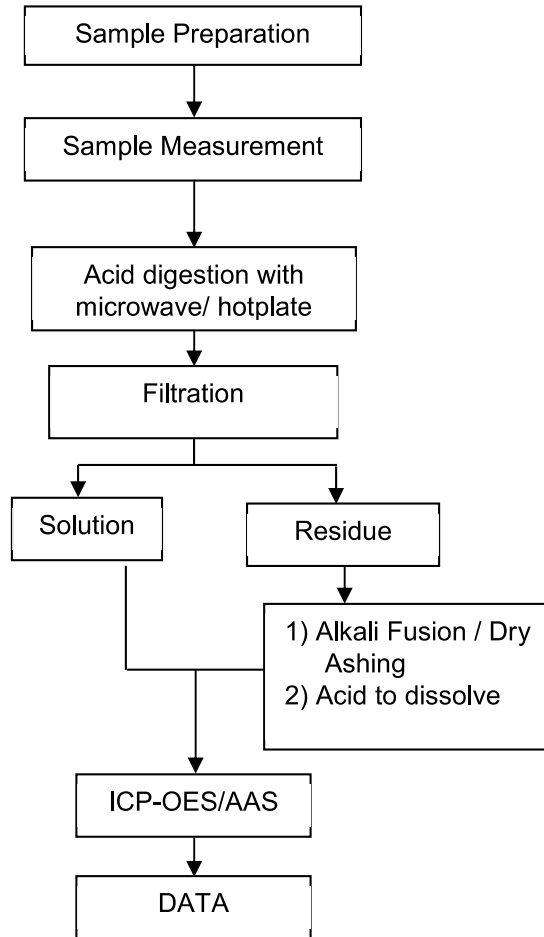
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.

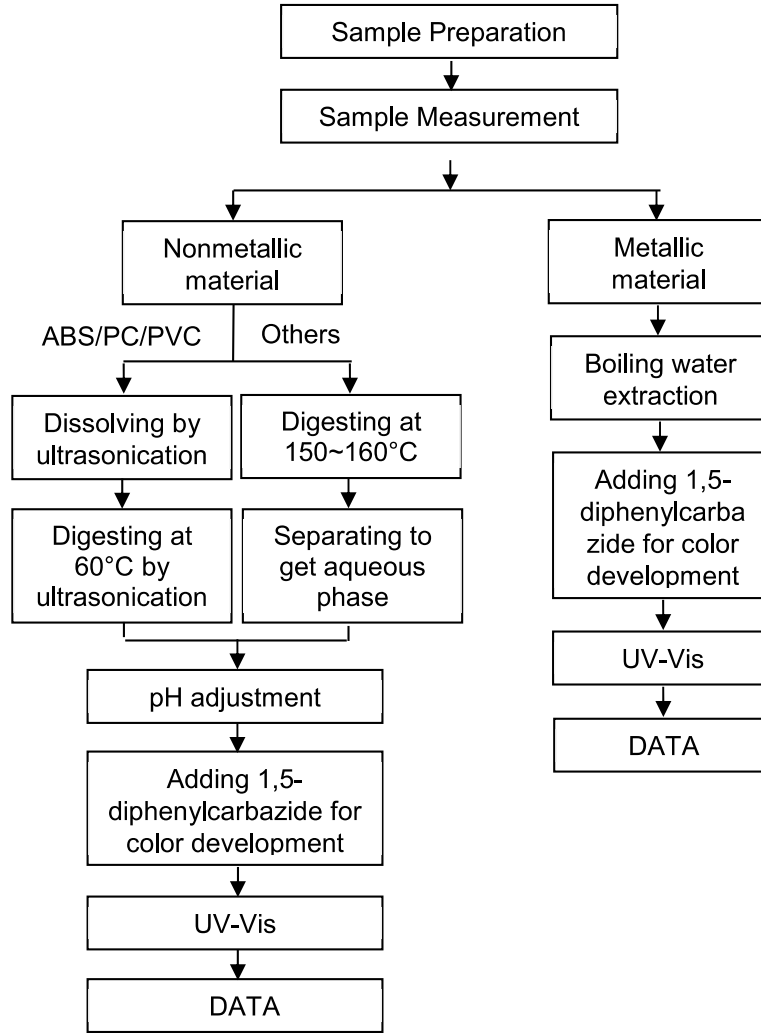


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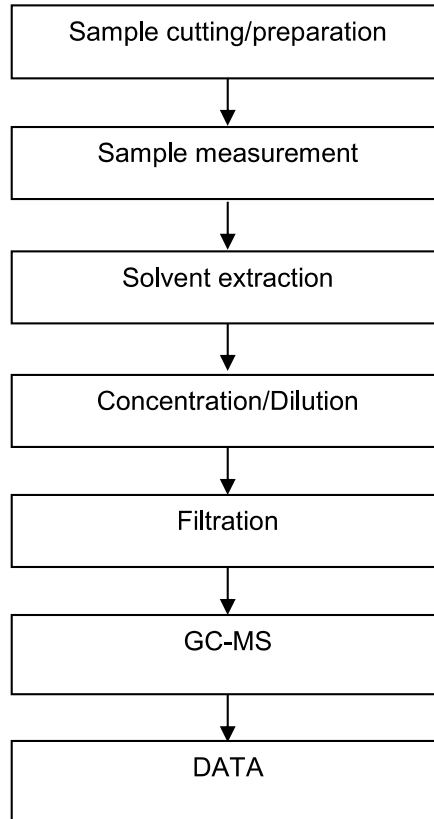
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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PBB/PBDE/Phthalates Testing Flow Chart



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Test Report

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Date: Mar 19, 2025

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Sample Photo:



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Test Report (SVHC)

No.: SZXEC25000757303

Date: Mar 19, 2025

Page 1 of 16

Client Name: DONGGUAN XIN HE CHENG METAL SURFACE TREATMENT CO.,LTD.

Client Address: ROOM 601, BUILDING 35, 126 GUANGMA AVENUE, MAYONG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Gold coatings

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-010777

Sample Receiving Date: Mar 13, 2025

Testing Period: Mar 13, 2025 ~ Mar 19, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
 (i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 As requested by client, Potential SVHC screening is performed according to:
 (i) Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Feb 28, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 (ii) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
 (iii) Two (2) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 247 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
--	------

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch



Ford Shi
 Approved Signatory

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Test Report (SVHC)

No.: SZXEC25000757303

Date: Mar 19, 2025

Page 2 of 16

According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

- 2.1 Concerning article(s):

- Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

- 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Copper metal with golden plating	A1	SZX25-0007573-0001.C001

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranymethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclotrasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	249	Decamethyltetrasiloxane	141-62-8	0.050



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/	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl)amino]propyl]amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.100
/	251	Resorcinol	108-46-3	0.050
/	252	Dodecamethylpentasiloxane	141-63-9	0.050
/	253	Hexamethyldisiloxane	107-46-0	0.050



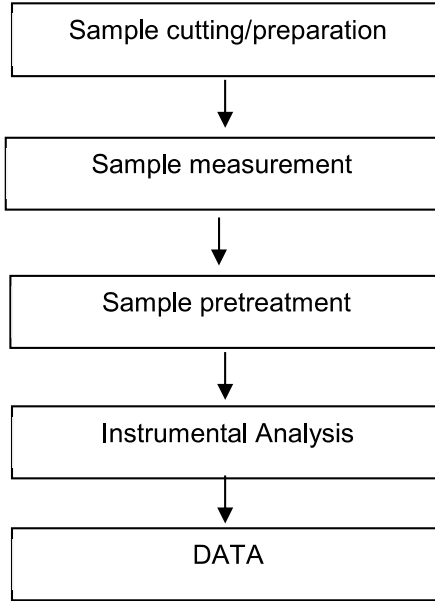
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Testing Flow Chart



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Test Report

No.: SZXEC25000757317

Date: Mar 19, 2025

Page 1 of 7

Client Name: DONGGUAN XIN HE CHENG METAL SURFACE TREATMENT CO.,LTD.

Client Address: ROOM 601, BUILDING 35, 126 GUANGMA AVENUE, MAYONG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Bright tin coating

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-010777

Sample Receiving Date: Mar 13, 2025

Testing Period: Mar 13, 2025 ~ Mar 19, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford

Ford Shi
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SZX25-0007573-0001.C003	Copper metal with silvery plating

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3
Lead (Pb)	1000	mg/kg	2	47
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Test Report

No.: SZXEC25000757317

Date: Mar 19, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A3
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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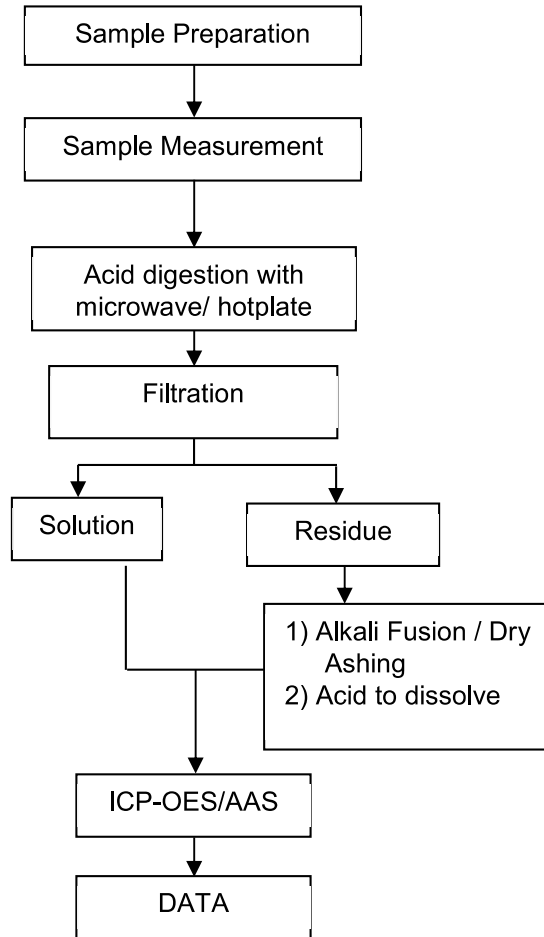
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ATTACHMENTS

Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.

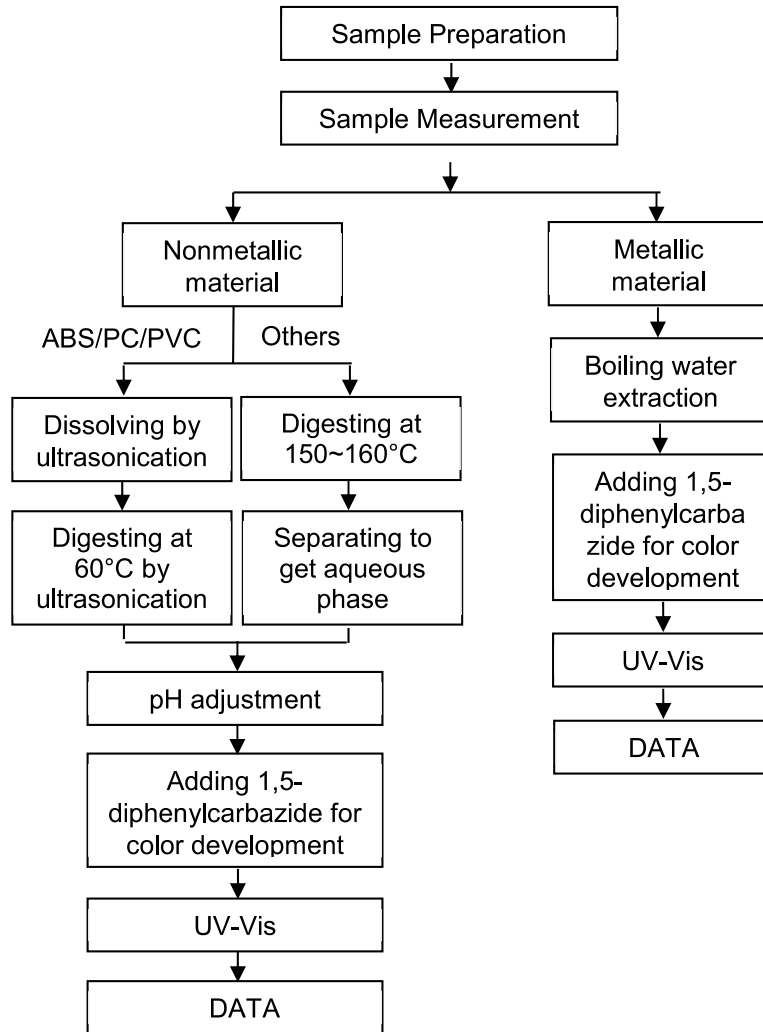


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

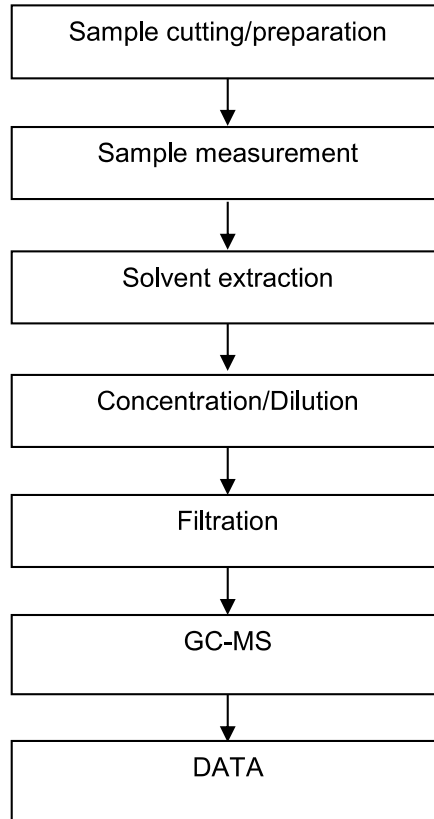


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PBB/PBDE/Phthalates Testing Flow Chart



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Test Report

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Date: Mar 19, 2025

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Sample Photo:



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**Test Report
(SVHC)**

No.: SZXEC25000757319

Date: Mar 19, 2025

Page 1 of 16

Client Name: DONGGUAN XIN HE CHENG METAL SURFACE TREATMENT CO.,LTD.

Client Address: ROOM 601, BUILDING 35, 126 GUANGMA AVENUE, MAYONG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: Bright tin coating

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-010777

Sample Receiving Date: Mar 13, 2025

Testing Period: Mar 13, 2025 ~ Mar 19, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
 (i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 As requested by client, Potential SVHC screening is performed according to:
 (i) Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Feb 28, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 (ii) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
 (iii) Two (2) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 247 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
--	------

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch



Ford Shi
 Approved Signatory

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Test Report (SVHC)

No.: SZXEC25000757319

Date: Mar 19, 2025

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According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

Pass



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

- 2.1 Concerning article(s):

- Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

- 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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**Test Report
(SVHC)**

No.: SZXEC25000757319

Date: Mar 19, 2025

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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Copper metal with silvery plating	A3	SZX25-0007573-0001.C003

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler’s ketone (CAS Number: 90-94-8) or Michler’s base (CAS Number: 101-61-1) ≥0.1% (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylemethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclotrasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	249	Decamethyltetrasiloxane	141-62-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
/	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.100
/	251	Resorcinol	108-46-3	0.050
/	252	Dodecamethylpentasiloxane	141-63-9	0.050
/	253	Hexamethyldisiloxane	107-46-0	0.050



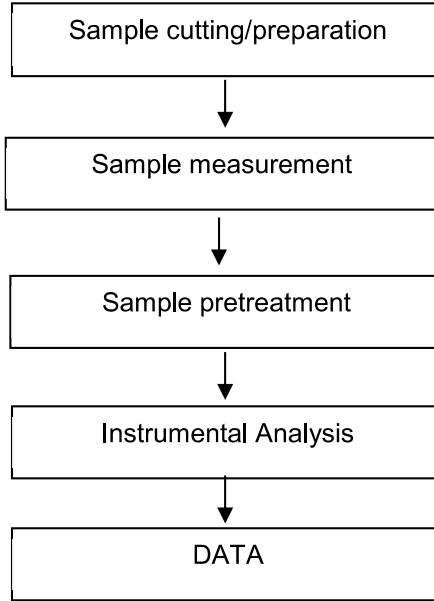
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Testing Flow Chart



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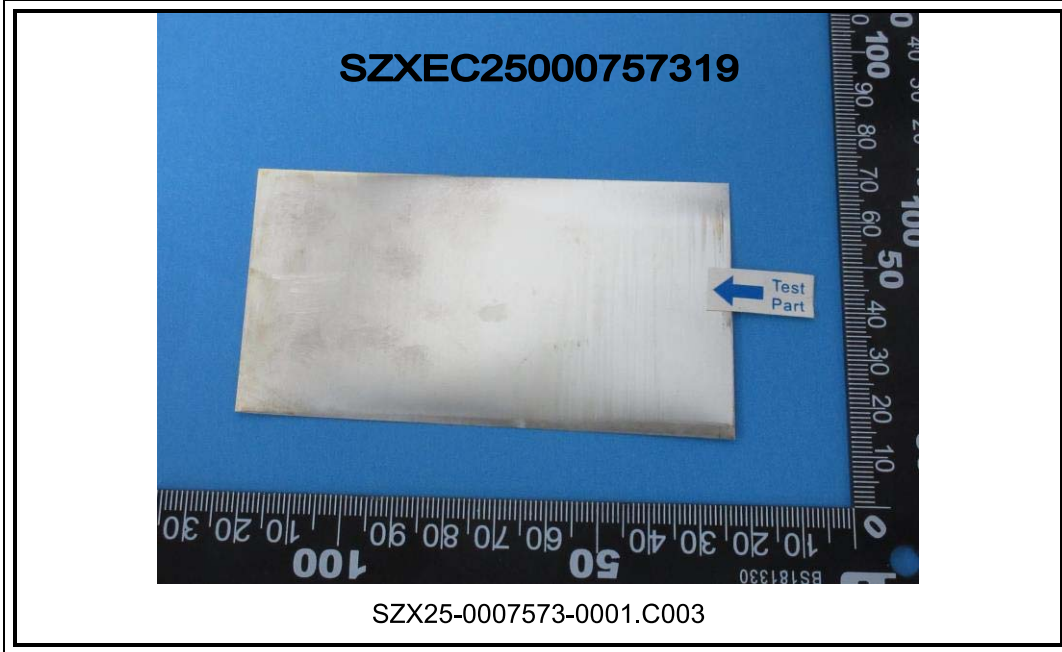
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Sample photos:



SGS authenticate the photo on original report only
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Test Report

No.: SZXEC25000757309

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Client Name: DONGGUAN XIN HE CHENG METAL SURFACE TREATMENT CO.,LTD.

Client Address: ROOM 601, BUILDING 35, 126 GUANGMA AVENUE, MAYONG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: nickel coating

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-010777

Sample Receiving Date: Mar 13, 2025

Testing Period: Mar 13, 2025 ~ Mar 19, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford Shi
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	SZX25-0007573-0001.C002	Copper metal with silvery plating

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	52
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Test Report

No.: SZXEC25000757309

Date: Mar 19, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A2
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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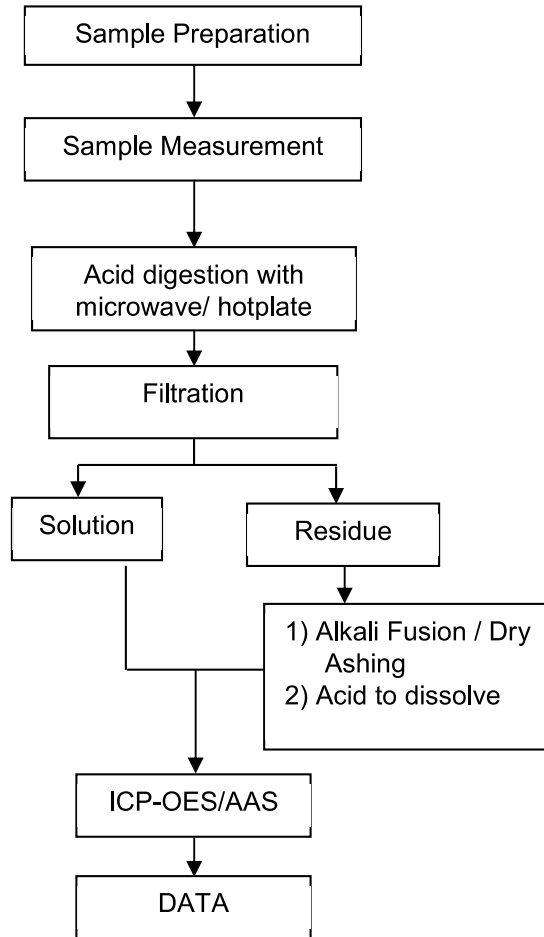
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ATTACHMENTS

Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.

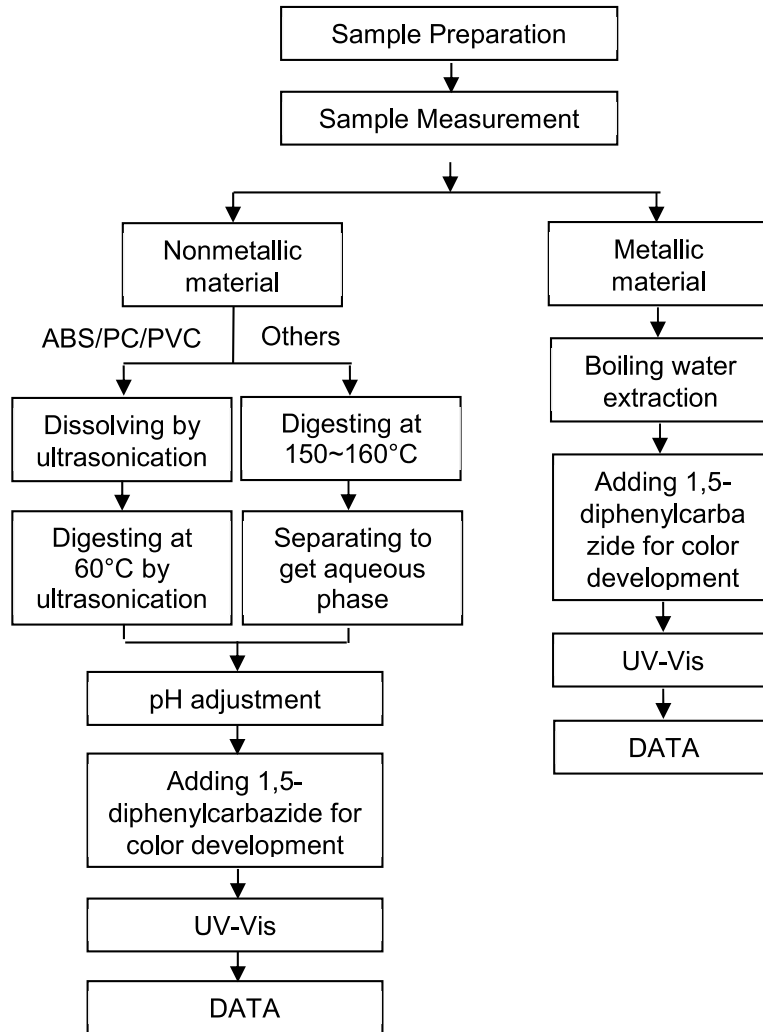


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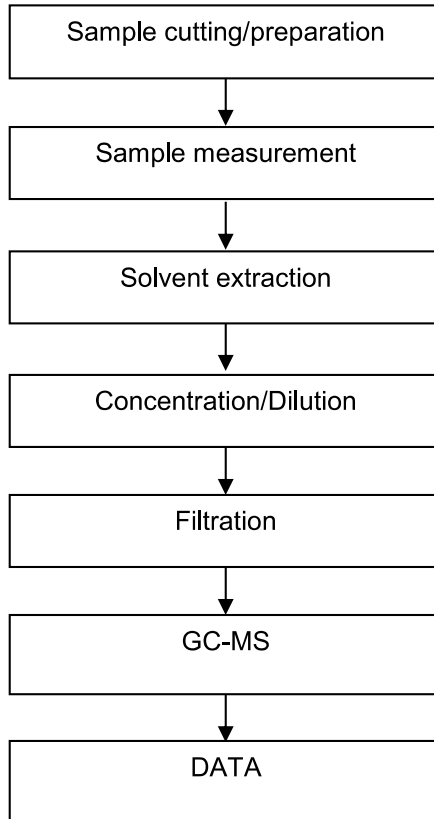
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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PBB/PBDE/Phthalates Testing Flow Chart



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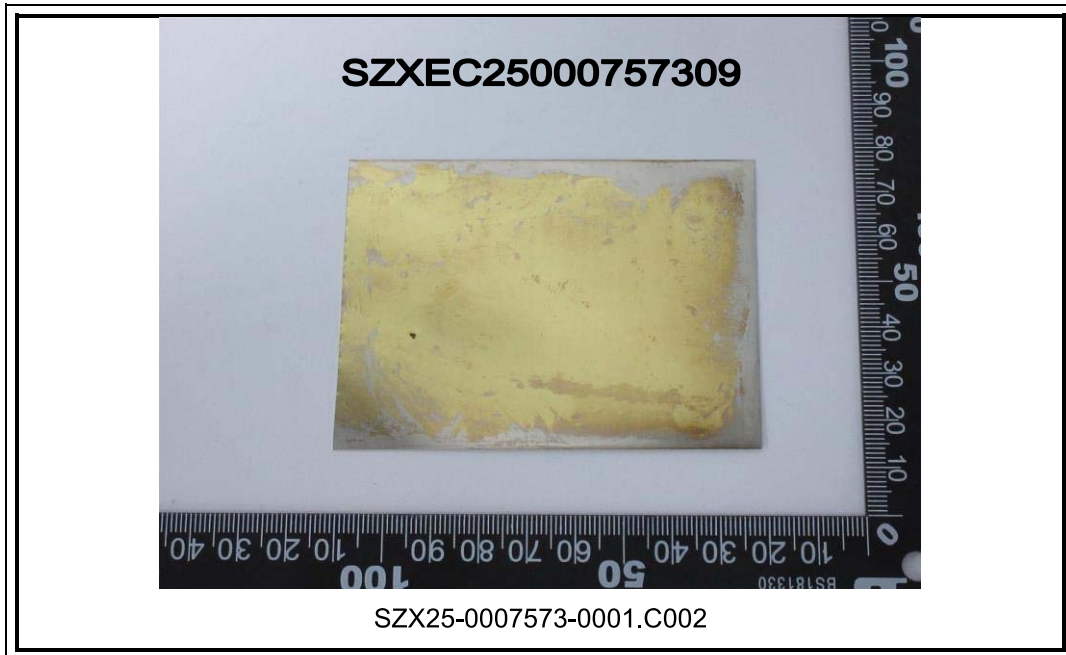
Test Report

No.: SZXEC25000757309

Date: Mar 19, 2025

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Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report (SVHC)

No.: SZXEC25000757311

Date: Mar 19, 2025

Page 1 of 17

Client Name: DONGGUAN XIN HE CHENG METAL SURFACE TREATMENT CO.,LTD.

Client Address: ROOM 601, BUILDING 35, 126 GUANGMA AVENUE, MAYONG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: nickel coating

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-010777

Sample Receiving Date: Mar 13, 2025

Testing Period: Mar 13, 2025 ~ Mar 19, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
(i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
As requested by client, Potential SVHC screening is performed according to:
(i) Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Feb 28, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
(ii) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
(iii) Two (2) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 247 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
--	------

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford Shi
Approved Signatory

Scan to see the report



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Test Report (SVHC)

No.: SZXEC25000757311

Date: Mar 19, 2025

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According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

Pass



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

- 2.1 Concerning article(s):

- Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

- 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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**Test Report
(SVHC)**

No.: SZXEC25000757311

Date: Mar 19, 2025

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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Copper metal with silvery plating	A2	SZX25-0007573-0001.C002

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.005	0.005
-	Other SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranymethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclotrasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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**Test Report
(SVHC)**

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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	249	Decamethyltetrasiloxane	141-62-8	0.050



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**Test Report
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Batch	No.	Substance Name	CAS No.	RL (%)
/	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)}-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.100
/	251	Resorcinol	108-46-3	0.050
/	252	Dodecamethylpentasiloxane	141-63-9	0.050
/	253	Hexamethyldisiloxane	107-46-0	0.050



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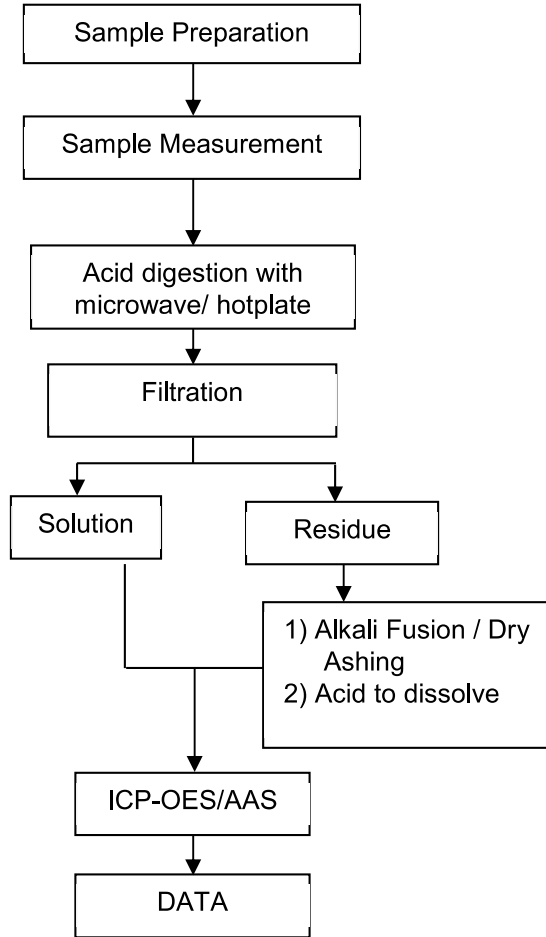
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ATTACHMENTS

Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



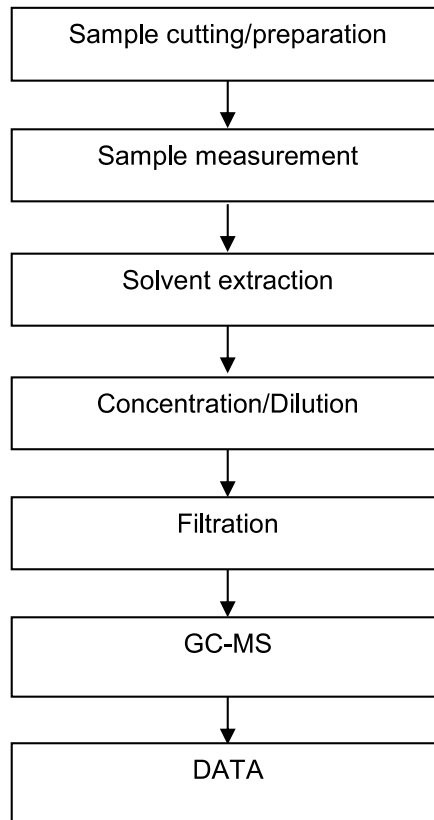
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PBB/PBDE/Phthalates Testing Flow Chart



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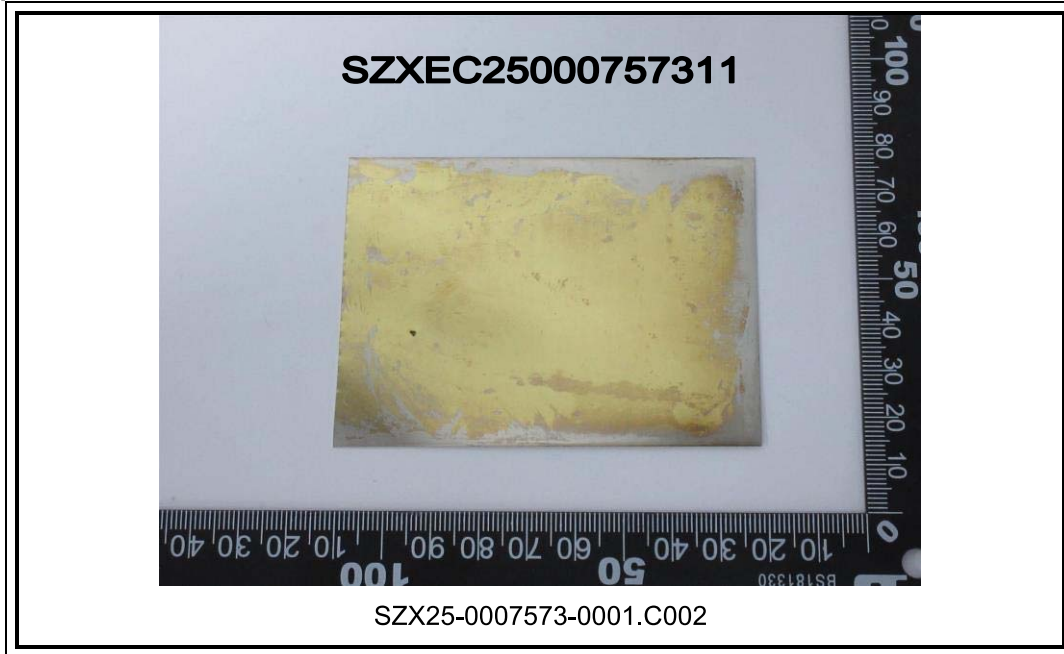
Test Report (SVHC)

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Sample photos:



SGS authenticate the photo on original report only
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Test Report

No.: CANPC25022110607

Date: Sep 11, 2025

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Client Name: SHENZHEN CHUANGMINGHUI CIRCUIT TECHNOLOGY CO.,LTD

Client Address: ROOM 304, BUILDING A6, NORTH INDUSTRIAL PARK, YANCHUAN COMMUNITY,
YANLUO STREET, BAO 'AN DISTRICT, SHENZHEN

Sample Name: PCB

The above sample(s) and information were provided by the client.

SGS Job No.: GZPC2509006149

Sample Receiving Date: Sep 04, 2025

Testing Period: Sep 04, 2025 ~ Sep 10, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	CAN25-0221106-0001.C001	Green PCB

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	001
Lead (Pb)	1000	mg/kg	2	12
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	001
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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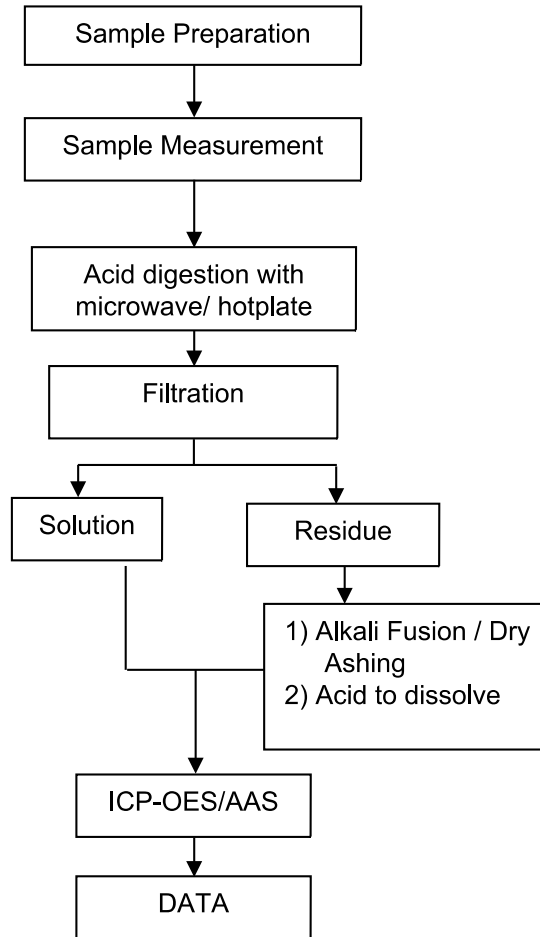
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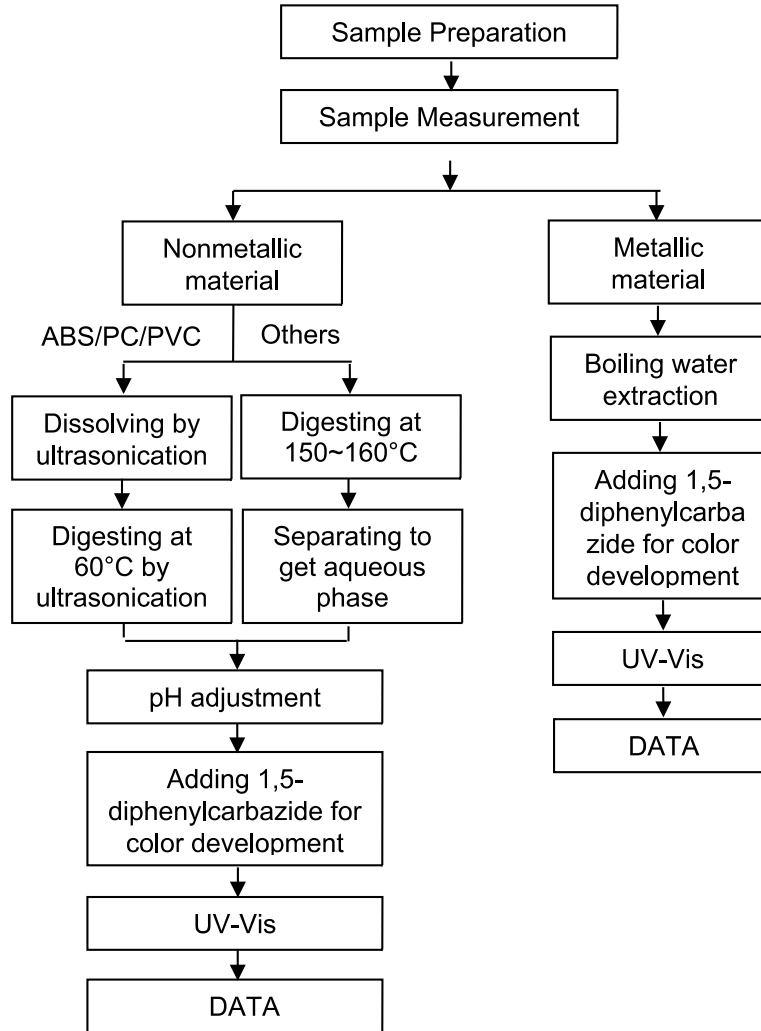
Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.

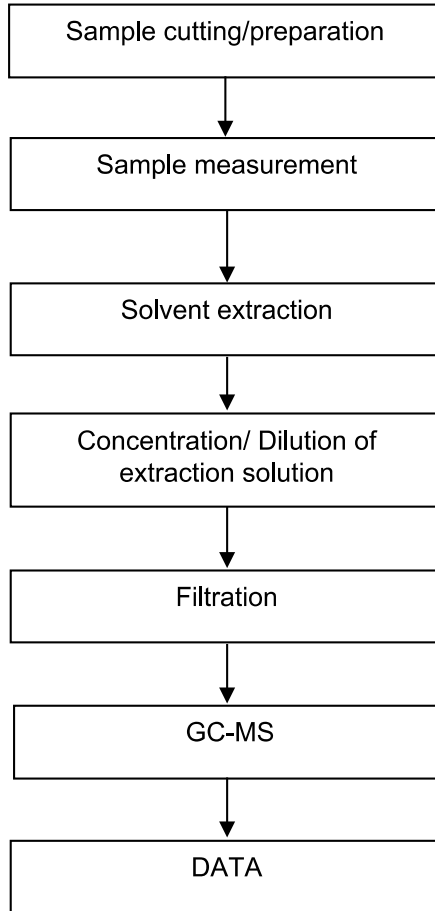


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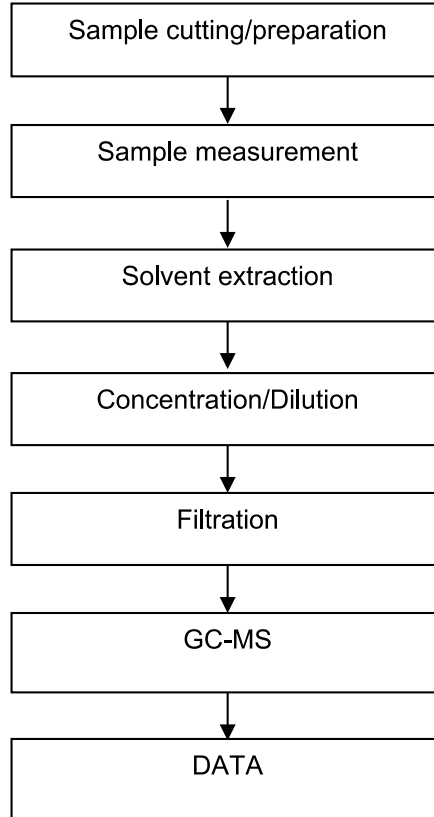
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB(s)/PBDE(s) Testing Flow Chart



Phthalates Testing Flow Chart



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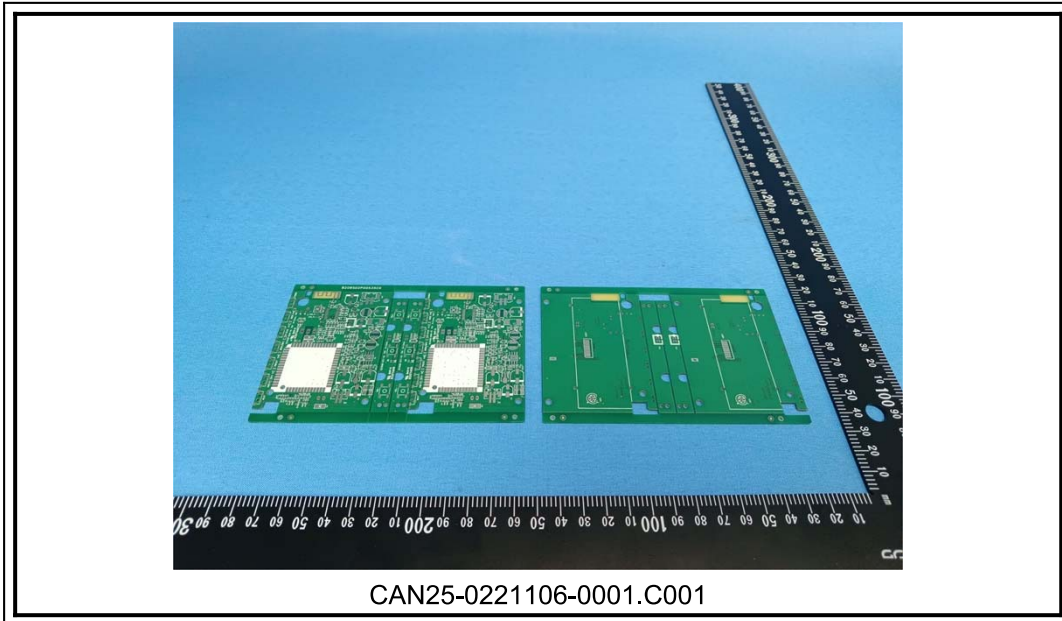
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Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report (SVHC)

No.: CANPC25022110606

Date: Sep 11, 2025

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Client Name: DONGGUAN XINYUHUI ELECTRONICS TECHNOLOGY CO.,LTD

Client Address: AREA E, NO. 23, JINFU ROAD, JINXIA FOURTH INDUSTRIAL ZONE, JINXIA COMMUNITY, CHANGAN TOWN, DONGGUAN CITY

Sample Name: PCB

The above sample(s) and information were provided by the client.

SGS Job No.: GZPC2509006149

Sample Receiving Date: Sep 04, 2025

Testing Period: Sep 04, 2025 ~ Sep 10, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:

(i) Two hundred and fifty (250) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 25, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.

As requested by client, Potential SVHC screening is performed according to:

(i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.

(ii) Four (4) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Sep 1, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.

(iii) One(1) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 250 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
--	------

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

Scan to see the report



CANPC25022110606
Verification:
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Test Report (SVHC)

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According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

Pass



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
 Communication:
 Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



**Test Report
(SVHC)**

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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Green PCB	001	CAN25-0221106-0001.C001

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- (5) / = Potential SVHC

The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong

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**Test Report
(SVHC)**

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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch / 广州分公司 检验检测专用章
Inspection & Testing Services

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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
XXXIII	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
XXXIII	249	Decamethyltetrasiloxane	141-62-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXXIII	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl)amino]propyl]amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl]diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.050
/	251	Resorcinol	108-46-3	0.050
/	252	n-hexane	110-54-3	0.050
/	253	4,4'-methylenediphenol (BPF)	620-92-8	0.050
/	254	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF) and its salts	-	0.050
/	255	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	0.050
/	256	Dodecamethylpentasiloxane	141-63-9	0.050



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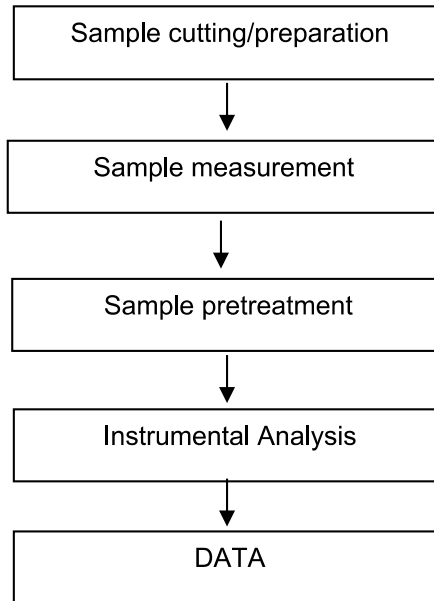
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ATTACHMENTS

Testing Flow Chart



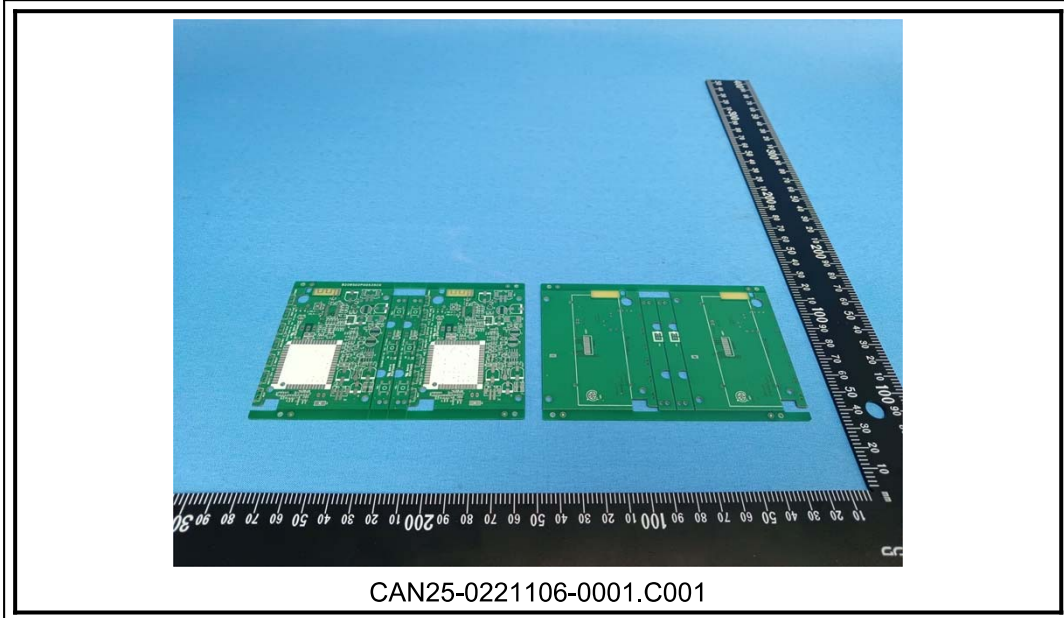
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Sample photos:



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測試報告

Test Report

號碼(No.): EKR26100071

日期(Date): 16-Jan-2026

頁數(Page): 1 of 11

國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))

23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as) :

送樣廠商(Sample Submitted By) : 國巨股份有限公司 (YAGEO CORPORATION)

樣品名稱(Sample Name) : MULTI-LAYER CERAMIC CAPACITOR

樣品型號(Style/Item No.) : X7R/X7S/X8R

收件日(Sample Receiving Date) : 02-Jan-2026

測試期間(Testing Period) : 02-Jan-2026 to 16-Jan-2026

測試需求(Test Requested) : (1) 依據客戶指定·參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結論(Conclusion) : (1) 根據客戶所提供的樣品·其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。(Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Day Chang

報告簽署人/張伯睿 博士/部經理
Ray Chang, Ph.D./ Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
化學實驗室-高雄/Chemical Laboratory-Kaohsiung



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測試報告

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))

23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 棕色/銀色 MULTI-LAYER CERAMIC CAPACITOR (BROWN/SILVER MULTI-LAYER CERAMIC CAPACITOR)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg))		mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)	mg/kg	-	n.d.	1000	

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000

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測試報告

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))

23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
鄰苯二甲酸二(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-

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測試報告

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))

23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3052: 1996, 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-
三氧化二銻(Sb ₂ O ₃) (Antimony trioxide (Sb ₂ O ₃)) (CAS No.: 1309-64-4)	由銻結果計算得之。(Calculated from the result of Antimony.)	mg/kg	2▲	n.d.	-

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. ▲ : MDL是針對元素/測試化合物之評估。(The MDL was evaluated for element / tested substance.)

換算公式 (Conversion Formula) : $AX = A \times F$

AX	A	F
三氧化二銻 (Antimony trioxide) (Sb ₂ O ₃)	銻 (Antimony)	1.1971

參數換算表 (Parameter Conversion Table) :

https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

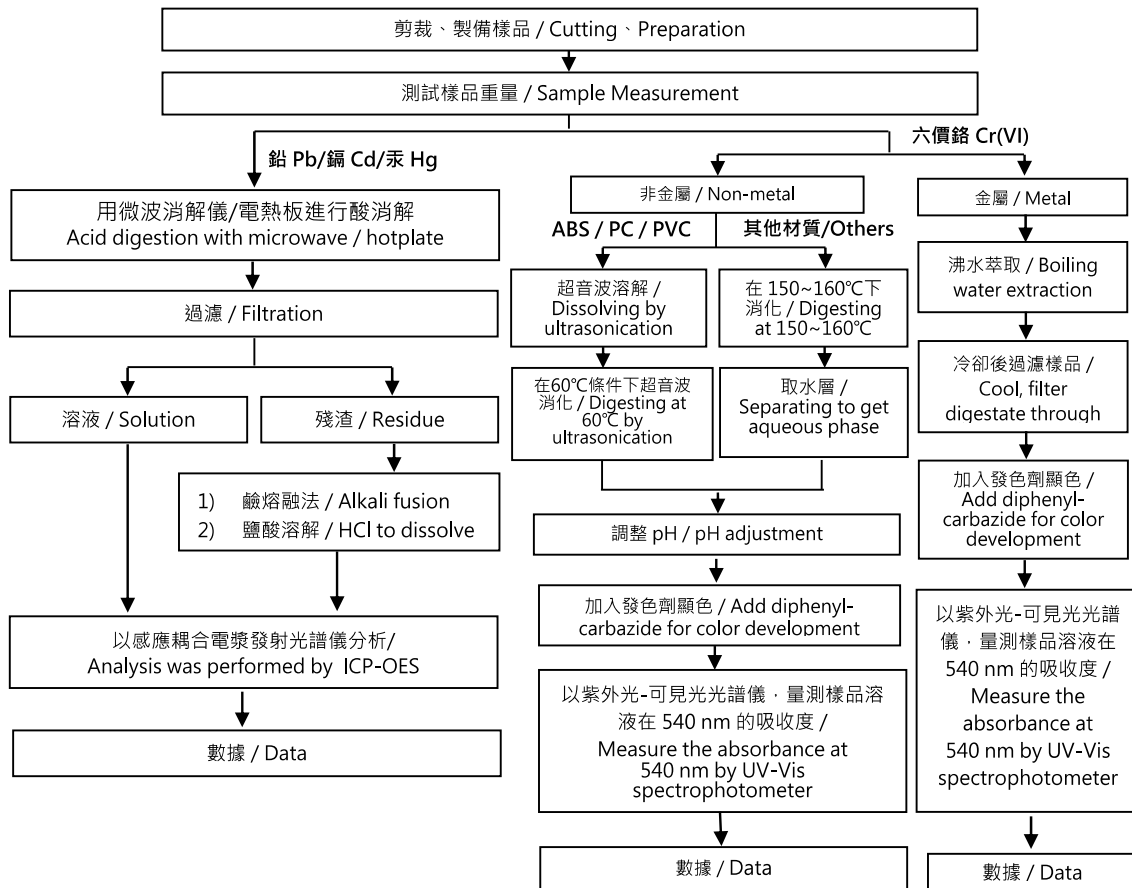
6. 除非另有說明, 參照ILAC-G8:09/2019決定規則, 採用簡單允收規則之二分法(w=0)進行符合性判定; 根據此規則, 符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)



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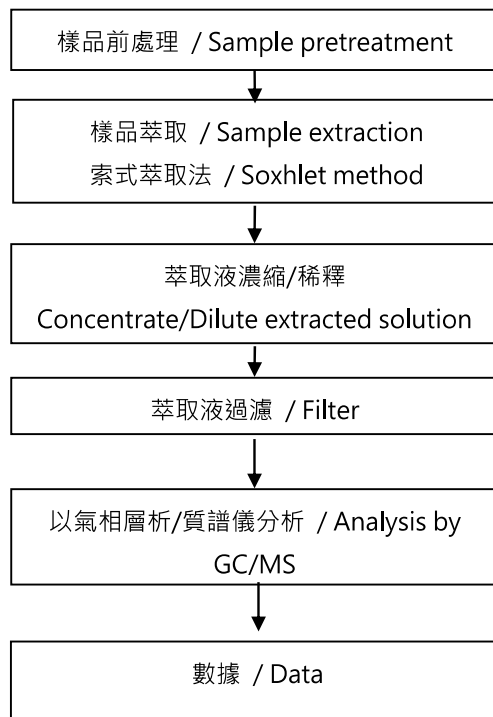
日期(Date): 16-Jan-2026

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))

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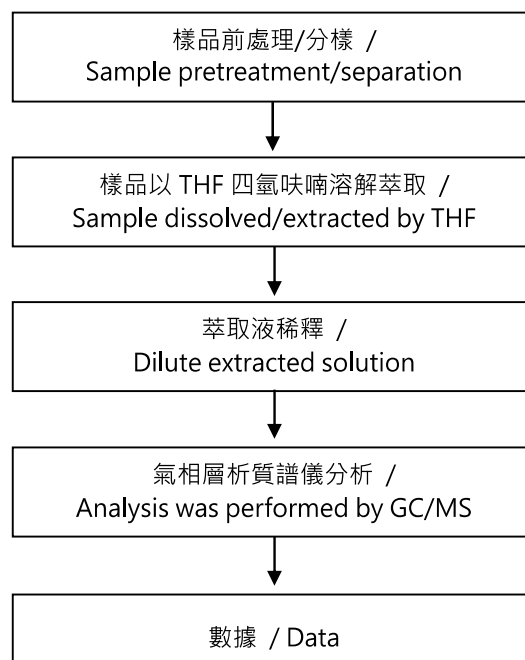
多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART



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可塑劑分析流程圖 / Analytical flow chart of phthalate content

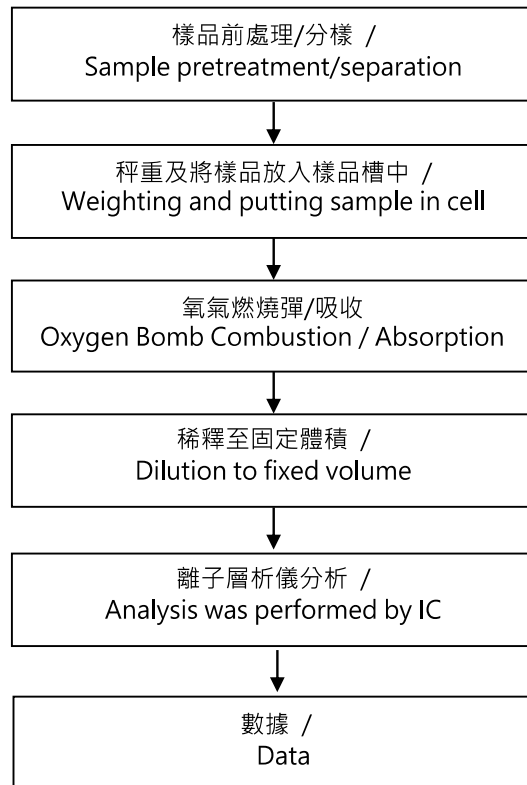
【測試方法/Test method: IEC 62321-8】



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鹵素分析流程圖 / Analytical flow chart of Halogen



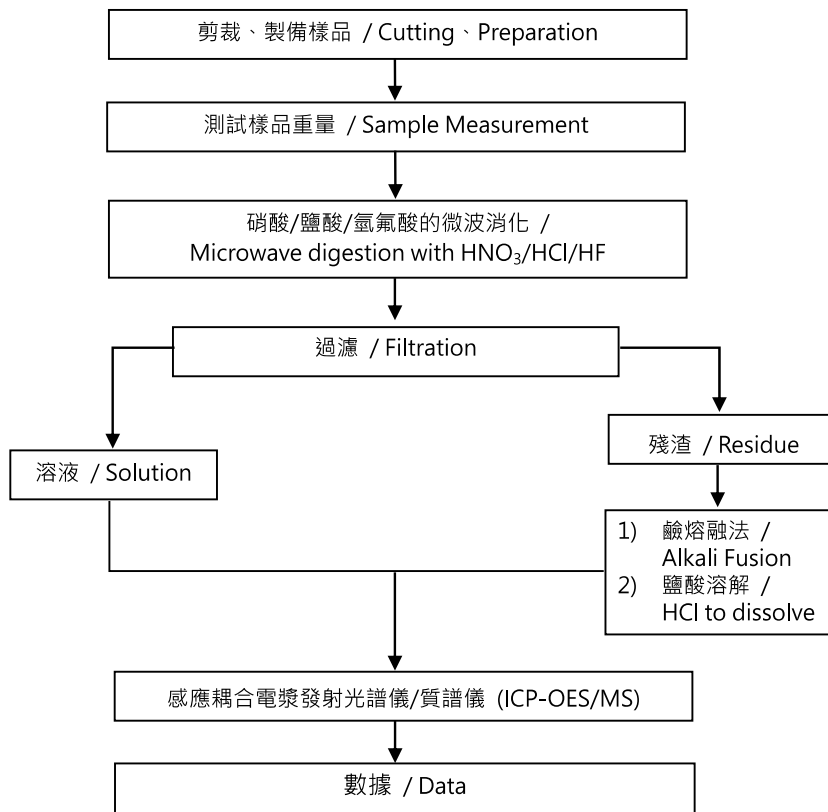
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

根據以下的流程圖之條件，樣品已完全溶解。

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【參考方法/Reference method : US EPA 3051、US EPA 3052】



* US EPA 3051 方法未添加氫氟酸 / US EPA 3051 method does not add HF.

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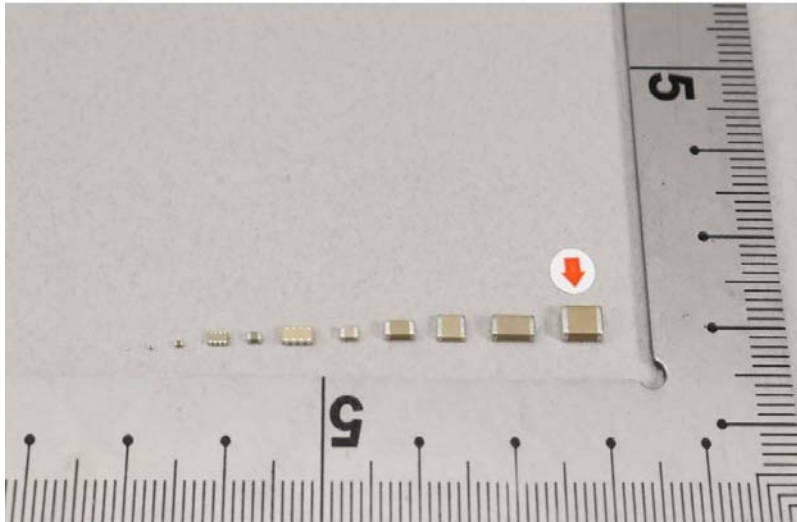
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。
(The tested sample / part is marked by an arrow if it's shown on the photo.)

EKR26100071



** 報告結尾 (End of Report) **

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))
23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)


以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as) :

送樣廠商(Sample Submitted By) : 國巨股份有限公司 (YAGEO CORPORATION)
樣品名稱(Sample Name) : MULTI-LAYER CERAMIC CAPACITOR
樣品型號(Style/Item No.) : NPO/X5R/X7R/X6S/X7S/Y5V/X8G/X8R SERIES

=====
收件日(Sample Receiving Date) : 02-Jan-2026
測試期間(Testing Period) : 02-Jan-2026 to 16-Jan-2026

測試需求(Test Requested) : 依據客戶指定·參考REACH之Regulation (EC) No 1907/2006的公告進行以下測試 (As specified by client, the sample(s) was/were tested with reference to Regulation (EC) No 1907/2006 concerning the REACH.)
(1) 251項高關注物質候選清單·於2025年11月05日公告 (251 Substances of Very High Concern (SVHC). Candidate list is published on November 5, 2025)
(2) 3項高關注物質建議清單·於2025年09月01日公告 (3 Substances of Very High Concern (SVHC). Proposed list is published on September 1, 2025)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).
總 結(Summary) : 根據歐洲法院對於REACH規範下成品定義的裁決以及指定範圍和分析技術·送測樣品中所選擇的零部件成品的高關注物質(SVHC) 測試結果濃度均 $\leq 0.1\%$ (w/w) (According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope as well as analytical technique, the test results of the selected article(s) are $\leq 0.1\%$ (w/w) in the submitted sample(s).)


報告簽署人/張伯睿 博士/部經理
Ray Chang, Ph.D./ Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
化學實驗室-高雄/Chemical Laboratory-Kaohsiung



PIN CODE: 7E3A1DC9

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))
23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 棕色/銀色 MULTI-LAYER CERAMIC CAPACITOR (BROWN/SILVER MULTI-LAYER CERAMIC CAPACITOR)

測試方法(Test Method)

參考RSTS-EE-SVHC-007，以感應耦合電漿發射光譜儀、紫外光-可見光分光光度計、氣相層析儀/質譜儀、液相層析儀/質譜儀、氣相層析儀/火焰光度偵測器、液相層析儀/二極體陣列偵測器、液相層析串聯質譜儀分析。(With reference to RSTS-EE-SVHC-007, analysis was performed by ICP-OES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/DAD, LC/MS/MS.)

測試結果 (Test Results)

單位 (Unit): %

(1) 高關注物質(SVHC)候選清單 Candidate List of SVHC (2025/11/05)

物質名稱 (Substance Name)	RL	濃度 (Concentration)	限值 (Limit)
		No.1	
所有高關注物質(SVHC)候選清單測試 (All tested SVHC in candidate list)	-	n.d.	0.1

(2) 高關注物質(SVHC)建議清單 Proposed list of SVHC (2025/09/01)

物質名稱 (Substance Name)	RL	濃度 (Concentration)	限值 (Limit)
		No.1	
所有高關注物質(SVHC)建議清單測試 (All tested SVHC in proposed list)	-	n.d.	0.1

Remark :

- (1) 高關注物質(SVHC)候選清單 Candidate List of SVHC (2025/11/05)
<https://echa.europa.eu/web/guest/candidate-list-table>
 - (2) 高關注物質(SVHC)建議清單 Proposed list of SVHC (2025/09/01)
<https://echa.europa.eu/substances-of-very-high-concern-identification>
2. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定，如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別，且同時符合下列兩項狀況，任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報：
- (a) 成品中所含物質每年超過1公噸。
(b) 依重量百分比計算，物質濃度超過0.1%。

In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

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國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))
23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

3. Regulation (EC) No 1907/2006中第 33 條要求成品供應商，其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%。應提供成品接受者充份可取得資訊，以確保成品的安全使用(至少包括物質的名稱)。

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

4. 如果樣品中高關注物質的濃度超過0.1% (w/w)和/或歐盟(EC)No.1272/2008 CLP法規及其修訂中設定的特殊濃度限值，建議客戶根據歐盟REACH法規No.1907/2006對有關高關注物質準備安全資料表(SDS)以符合供應鏈通信的義務，如：

- (I) 根據(EC)No.1272/2008 CLP法規被列為有害物質。
- (II) 根據(EC)No.1272/2008 CLP法規被列為有害混合物，而當中物質的濃度大於或等於(EC)No.1272/2008 CLP法規列出的濃度限值；或
- (III) 根據(EC)No.1272/2008 CLP法規並未列為有害混合物，但包含：
 - (a) 對人類健康或環境有害的物質，而在固體或液體混合物(即非氣體混合物)中其濃度 $\geq 1\%$ (w/w)或在氣體混合物中占體積 $\geq 0.2\%$ ，或
 - (b) PBT或vPvB物質，在固體或液體混合物(即非氣體混合物)中個別濃度 $\geq 0.1\%$ (w/w)，或
 - (c) 授權審議的高關注物質候選清單上的物質(除上述以外的原因)在個別非氣體混合物中的濃度 $\geq 0.1\%$ (w/w)，或
 - (d) 設有歐洲範圍內工作場所接觸限值的物質。

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- (I) a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- (II) mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- (III) a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits

5. 倘若SVHC超出報告極限值，建議客戶確認含有該SVHC的零件，並要求實驗室進一步的定量分析而取得SVHC的確切濃度。

If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

備註(Note)：

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. RL = Reporting Limit (報告極限值)
- 3. n.d. = Not Detected (未檢出) ; 小於RL (Less than RL)
- 4. "-" = Not Regulated (無規格值)

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5. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 × 1.1375
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1375)
6. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來。(The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.)
7. ***: 該物質是由單辛基錫、二辛基錫、三丁基錫、二丁基錫、全氟辛酸或各別元素 (例如: 砷、鉛、六價鉻、硼、鈷、鋇、鎘、鎘、鎘、鎘)之測試結果計算得知。(The substance was calculated by the test results of Monoctyl Tin, Dioctyl Tin, Tributyl Tin, Dibutyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium, Sulfur respectively).)

表格 (Table) 1 : 測試結果如下(The test result is given as): 單位(Unit): %

物質名稱 / 特定元素 (Substance Name / Specific Element(s))	RL	濃度 (Concentration)
		No.1
三丁基錫 (Tributyl Tin) (TBT)	0.0487	n.d.
砷 (Arsenic) (As) (※ E)	0.005	n.d.
六價鉻 (Hexavalent chromium) (Cr(VI))	0.005	n.d.
硼 (Boron) (B) (※ E)	0.005	n.d.
鈷 (Cobalt) (Co)	0.005	n.d.
二丁基錫 (Dibutyl Tin) (DBT)	0.027	n.d.
鋇 (Barium) (Ba)	0.005	0.888
二辛基錫 (Dioctyl Tin) (DOT)	0.023	n.d.
單辛基錫 (Monoctyl Tin) (MOT)	0.0138	n.d.
鉛 (Lead) (Pb)	0.005	n.d.
鎘 (Cadmium) (Cd)	0.005	n.d.
硫 (Sulfur) (S) (※ E)	0.005	n.d.

8. F參數換算表&分類 (F Parameter Conversion Table & Classification):
https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
9. (※ P): 此化合物之濃度是取六價鉻及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。(Regarding the compound containing Cr(VI) and lead, lead and Cr(VI) are tested and respectively used for the calculation of the independent concentration of the compound containing Cr(VI) and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
10. (※ C): 鉻酸與重鉻酸的寡聚體: 因為其寡聚體是由未知數的鉻酸或與重鉻酸所組成，而導致沒有固定分子量，因此以單體鉻酸或重鉻酸較為重要並應被考慮。(Oligomers of chromic acid and dichromic acid: since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.)
11. (※ H): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519)。(Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).)

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12. (※ S): 此砷鉛化合物之濃度是取砷及鉛兩者各別換算出砷鉛化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
13. (※ T): 由於TGIC本身含有β-TGIC，依照ECHA技術文件β-TGIC與TGIC約為1:10比例，因此β-TGIC將以1/10的TGIC計算濃度。(TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.)
14. (※ B): 只有在矽與鉛定性結果為陽性時，再以鋇之濃度換算之。(Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.)
15. (※ R): RP-HP無法直接測得且無法自特定元素計算含量，RP-HP之所以被定義於SVHC是因為4-HPbI，因此分析4-HPbI取代RP-HP。(RP-HP can't be identified directly and test result can't be calculated based on specific element(s) or compound. RP-HP is identified as SVHC because of 4-HPbI, therefore 4-HPbI is analysed instead of RP-HP.)
16. (●): 因為鉛有一很廣泛應用，不太可能判定是否檢驗出的鉛是來自鉛離子，鉛元素或鉛化合物，因此用檢驗出的總鉛來代表鉛。(Since lead has a wide application, it is unlikely to determine if the detected lead comes from the lead ion, lead element or/ and lead compounds. Therefore the detected total lead is used on behalf of lead.)
17. (※ U): 硼酸鈉鹽及其水合物; 硼酸二鈉鹽; 硼酸三鈉; 硼酸鈉鹽; 硼酸鈉; 硼酸鈉鹽 (1:1) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0)。依據其中最大分子量的硼酸鈉鹽 (CAS No.: 13840-56-7)進行計算，其F參數為11.8215。(Boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Orthoboric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0). The calculation is based on the largest molecular weight of Orthoboric acid, sodium salt (CAS No.: 13840-56-7). The F Parameter is 11.8215.)
18. (※ D): 此化合物之濃度是取硼及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Boron and lead, lead and Boron are tested and respectively used for the calculation of the independent concentration of the compound containing Boron and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
19. (※ G): 此化合物先定性初篩，當該化合物有訊號，再利用特定元素硫及磷計算化合物濃度。
(The compound is qualitatively screened first. When there is a signal of the compound, specific elements Sulfur and Phosphorus are used to calculate the concentration of compound.)
20. (※ I): 先對特定指標化合物進行初篩，再經評估後，如有特定訊號時，實驗室需加測總氟來計算化合物濃度。
(A specific index compound is qualitatively screened first. After the evaluation, and the specific signal is positive, the total Fluorine is used to calculate the concentration of SVHC compound.)
21. (※ A): 此化合物之濃度是取硼及鋇兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Boron and Barium, Barium and Boron are tested and respectively used for the calculation of the independent concentration of the compound containing Boron and Barium. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
22. (※ E): 被萃取出之溶出硼/砷/硫是以感應耦合電漿發射光譜儀檢測得之。(The extracted soluble Boron / Arsenic / Sulfur are detected by ICP-OES.)

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23. (※ J): 活性棕 51為利用水萃取法進行初篩，若符合特定條件，再以溶出硫濃度進行換算。
(Reactive brown 51 is qualitatively screened first by water extraction. After the evaluation, and there is a signal of the compound, the extracted soluble sulfur is used to calculate the concentration of SVHC compound.)
24. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法(w=0)進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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【附錄 (Appendix) 1】

(1) 高關注物質(SVHC)候選清單 Candidate List of SVHC (2025/11/05) :

單位 (Unit): %

No.	物質名稱 (Substance Name)	RL
1.	4,4' - 二氨基二苯甲烷 (4,4'- Diaminodiphenylmethane) (MDA) (CAS No.: 101-77-9)	0.05
2.	二甲苯麝香 (5-tert-butyl-2,4,6-trinitro-m-xylene) (Musk Xylene) (CAS No.: 81-15-2)	0.05
3.	短鏈氯化石蠟 (Alkanes, C10-13, chloro) (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	0.05
4.	蒽 (Anthracene) (CAS No.: 120-12-7)	0.05
5.	鄰苯二甲酸丁苯甲酯 (Benzyl butyl phthalate) (BBP) (CAS No.: 85-68-7)	0.05
6.	氧化雙三丁基錫 (Bis(tributyltin) oxide) (TBTO)***(CAS No.: 56-35-9)	-
7.	五氧化二砷 (Diarsenic pentaoxide)***(CAS No.: 1303-28-2)	-
8.	三氧化二砷 (Diarsenic trioxide)***(CAS No.: 1327-53-3)	-
9.	鄰苯二甲酸二丁酯 (Dibutyl phthalate) (DBP) (CAS No.: 84-74-2)	0.05
10.	六溴環十二烷及所有主要被辨別出的異構物 (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	0.05
11.	砷酸氫鉛 (Lead hydrogen arsenate)***(CAS No.: 7784-40-9) (※ S)	-
12.	重鉻酸鈉 (Sodium dichromate)***(CAS No.: 10588-01-9, 7789-12-0) (*)	-
13.	三乙基砷酸酯 (Triethyl arsenate)***(CAS No.: 15606-95-8)	-
14.	鄰苯二甲酸二 (2-乙基己基) 酯 (Bis (2-ethylhexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	0.05
15.	2,4-二硝基甲苯 (2,4-Dinitrotoluene) (CAS No.: 121-14-2)	0.05
16.	蒽油 (Anthracene oil) (CAS No.: 90640-80-5) (**)	0.05
17.	蒽油, 蒽糊 (Anthracene oil, anthracene paste) (CAS No.: 90640-81-6) (**)	0.05
18.	蒽油, 蒽糊, 蒽餾分 (Anthracene oil, anthracene paste, anthracene fraction) (CAS No.: 91995-15-2) (**)	0.05
19.	蒽油, 蒽糊, 輕油 (Anthracene oil, anthracene paste, distn. Lights) (CAS No.: 91995-17-4) (**)	0.05
20.	蒽油, 含蒽量少 (Anthracene oil, anthracene-low) (CAS No.: 90640-82-7) (**)	0.05
21.	鄰苯二甲酸二異丁酯 (Diisobutyl phthalate) (DIBP) (CAS No.: 84-69-5)	0.05
22.	鉻酸鉛 (Lead chromate)***(CAS No.: 7758-97-6) (※ P)	-
23.	鉬鉻紅; 顏色素引: 顏料紅104 (Lead chromate molybdate sulphate red (C.I. Pigment Red 104))***(CAS No.: 12656-85-8) (※ P)	-
24.	鉻酸鉛; 顏色素引: 顏料黃34 (Lead sulfochromate yellow (C.I. Pigment Yellow 34))***(CAS No.: 1344-37-2) (※ P)	-
25.	煤瀝青, 高溫 (Pitch, coal tar, high-temp.) (CAS No.: 65996-93-2) (**)	0.05
26.	磷酸三(2-氯乙基) 酯 (Tris(2-chloroethyl) phosphate) (TCEP) (CAS No.: 115-96-8)	0.05
27.	丙烯醯胺 (Acrylamide) (CAS No.: 79-06-1)	0.05

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No.	物質名稱 (Substance Name)	RL
28.	重鉻酸銨 (Ammonium dichromate)*** (CAS No.: 7789-09-5)	-
29.	硼酸 (Boric acid)*** (CAS No.: 10043-35-3, 11113-50-1)	-
30.	無水四硼酸二鈉 (Disodium tetraborate, anhydrous)*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	-
31.	鉻酸鉀 (Potassium chromate)*** (CAS No.: 7789-00-6)	-
32.	重鉻酸鉀 (Potassium dichromate)*** (CAS No.: 7778-50-9)	-
33.	鉻酸鈉 (Sodium chromate)*** (CAS No.: 7775-11-3)	-
34.	水合硼酸鈉 (Tetraboron disodium heptaoxide, hydrate) (CAS No.: 12267-73-1) (※ H)	-
35.	三氯乙烯 (Trichloroethylene) (CAS No.: 79-01-6)	0.05
36.	乙二醇乙醚 (2-Ethoxyethanol) (CAS No.: 110-80-5)	0.05
37.	乙二醇甲醚 (2-Methoxyethanol) (CAS No.: 109-86-4)	0.05
38.	從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 (Acids generated from chromium trioxide and their oligomers: Chromic acid)*** (CAS No.: 7738-94-5)	-
	從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 (Acids generated from chromium trioxide and their oligomers: Dichromic acid)*** (CAS No.: 13530-68-2)	-
	從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 (Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid) (※ C)	-
39.	三氧化鉻 (Chromium trioxide)*** (CAS No.: 1333-82-0)	-
40.	碳酸鈷(二價) (Cobalt(II) carbonate)*** (CAS No.: 513-79-1)	-
41.	醋酸鈷(二價) (Cobalt(II) diacetate)*** (CAS No.: 71-48-7)	-
42.	硝酸鈷(二價) (Cobalt(II) dinitrate)*** (CAS No.: 10141-05-6)	-
43.	硫酸鈷(二價) (Cobalt(II) sulphate)*** (CAS No.: 10124-43-3)	-
44.	1,2,3-三氯丙烷 (1,2,3-trichloropropane) (CAS No.: 96-18-4)	0.05
45.	鄰苯二甲酸二(C6-8支鏈)烷基酯·富C7 (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (DIHP) (CAS No.: 71888-89-6)	0.05
46.	鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (DHNUP) (CAS No.: 68515-42-4)	0.05
47.	N-甲基吡咯烷酮 (1-Methyl-2-pyrrolidone) (NMP) (CAS No.: 872-50-4)	0.05
48.	乙二醇乙醚乙酸酯 (2-Ethoxyethyl acetate) (CAS No.: 111-15-9)	0.05
49.	聯氨 (Hydrazine) (CAS No.: 7803-57-8, 302-01-2)	0.05
50.	鉻酸銣 (Strontium chromate)*** (CAS No.: 7789-06-2)	-
51.	二氯化鈷 (Cobalt dichloride) (CAS No.: 7646-79-9)	0.005
52.	1,2-二氯乙烷 (1,2-Dichloroethane) (CAS No.: 107-06-2)	0.05
53.	4,4'-亞甲雙(2-氯苯胺) (2,2'-dichloro-4,4'-methylenedianiline) (CAS No.: 101-14-4)	0.05

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No.	物質名稱 (Substance Name)	RL
54.	鄰甲氧基苯胺 (2-Methoxyaniline, o-Anisidine) (CAS No.: 90-04-0)	0.05
55.	對特辛基苯酚 / 辛基酚 (4-(1,1,3,3-tetramethylbutyl)phenol) (CAS No.: 140-66-9)	0.05
56.	矽酸鋁·耐火陶瓷纖維 (主要成分濃度於可變範圍內) (Aluminosilicate Refractory Ceramic Fibres 【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】)	0.05
57.	砷酸 (Arsenic acid)*** (CAS No.: 7778-39-4)	-
58.	双(2-甲氧基乙基)醚 (Bis(2-methoxyethyl) ether) (CAS No.: 111-96-6)	0.05
59.	鄰苯二甲酸二甲氧基乙酯 (Bis(2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	0.05
60.	砷酸鈣 (Calcium arsenate)*** (CAS No.: 7778-44-1)	-
61.	鉻酸鉻 (Dichromium tris(chromate)*** (CAS No.: 24613-89-6)	-
62.	甲醛與苯胺的寡聚體 (Formaldehyde, oligomeric reaction products with aniline (technical MDA)) (CAS No.: 25214-70-4)	0.05
63.	疊氮化鉛 (Lead diazide, Lead azide)*** (CAS No.: 13424-46-9)	-
64.	苦味酸鉛 (Lead dipicrate)*** (CAS No.: 6477-64-1)	-
65.	中性斯蒂酚酸鉛 (Lead styphnate)*** (CAS No.: 15245-44-0)	-
66.	N,N-二甲基乙醯胺 (N,N-dimethylacetamide) (DMAC) (CAS No.: 127-19-5)	0.05
67.	八氫氧化五鉻酸鋅 (Pentazinc chromate octahydroxide)*** (CAS No.: 49663-84-5)	-
68.	酚酞 (Phenolphthalein) (CAS No.: 77-09-8)	0.05
69.	氫氧化鉻酸鋅鉀 (Potassium hydroxyoctaoxodizincatedichromate)*** (CAS No.: 11103-86-9)	-
70.	砷酸鉛 (Trilead diarsenate)*** (CAS No.: 3687-31-8) (※ S)	-
71.	鋯矽酸鋁·耐火陶瓷纖維 (主要成分濃度於可變範圍內) (Zirconia Aluminosilicate Refractory Ceramic Fibres 【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】)	0.05
72.	鹼性藍 26 [內含≥ 0.1% 的米氏酮或米氏鹼] ([4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 2580-56-5)	0.05
73.	鹼性紫 3 [內含≥ 0.1% 的米氏酮或米氏鹼] ([4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 548-62-9)	0.05
74.	三甘醇二甲醚 (1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)) (CAS No.: 112-49-2)	0.05
75.	乙二醇二甲醚 (1, 2-dimethoxyethane; ethylene glycol dimethyl ether) (EGDME) (CAS No.: 110-71-4)	0.05
76.	異氰尿酸三縮水甘油酯 (1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione) (TGIC) (CAS No.: 2451-62-9)	0.05

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23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN)

No.	物質名稱 (Substance Name)	RL
77.	異氰尿酸β-三縮水甘油酯 (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (β-TGIC) (CAS No.: 59653-74-6) (※ T)	0.05
78.	α, α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 [內含≥ 0.1% 的米氏酮或米氏鹼] (4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol) [with ≥ 0.1% of Michler's ketone or Michler's base] (CAS No.: 561-41-1)	0.05
79.	4,4'-二(N,N'-二甲氨基)二苯甲酮 (米氏酮) (4,4'-bis(dimethylamino)benzophenone (Michler's ketone)) (CAS No.: 90-94-8)	0.05
80.	三氧化二硼 (Diboron trioxide)*** (CAS No.: 1303-86-2)	-
81.	甲醯胺 (Formamide) (CAS No.: 75-12-7)	0.05
82.	甲基磺酸鉛 (Lead(II) bis(methanesulfonate))*** (CAS No.: 17570-76-2)	-
83.	4,4'-(對二甲氨基)二苯基甲烷 (米氏鹼) (N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)) (CAS No.: 101-61-1)	0.05
84.	溶劑藍 4 [內含≥ 0.1% 的米氏酮或米氏鹼] (α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 6786-83-0)	0.05
85.	[1,2-苯二羧酸根合]二氧化三鉛 ([Phthalato(2-)]dioxotrilead)*** (CAS No.: 69011-06-9)	-
86.	支鏈和直鏈1,2-苯二羧二戊酯 (1,2-Benzenedicarboxylic acid, dipentylester, branched and linear) (CAS No.: 84777-06-0)	0.05
87.	乙二醇二乙醚 (1,2-Diethoxyethane) (CAS No.: 629-14-1)	0.05
88.	正丙基溴 (1-bromopropane (n-propyl bromide)) (CAS No.: 106-94-5)	0.05
89.	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-噁唑烷 (3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine) (CAS No.: 143860-04-2)	0.05
90.	4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基 [以及所有的被定義的物質 · 未知成分或可變成分的物質 · 聚合物和同系物] (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues])	0.05
91.	4,4'-二氨基-3,3'-二甲基聯苯基甲烷 (4,4'-Methylenedi-o-toluidine) (CAS No.: 838-88-0)	0.05
92.	4,4'-二氨基二苯醚 (4,4'-Oxydianiline and its salts) (CAS No.: 101-80-4)	0.05
93.	4-氨基偶氮基苯胺 (4-Aminoazobenzene) (CAS No.: 60-09-3)	0.05
94.	2,4-二氨基甲苯 (2,4-Diaminotoluene) (CAS No.: 95-80-7)	0.05
95.	分支或線性的壬基酚 · 包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 (4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	0.05
96.	3-甲基-6-甲氧基苯胺 (6-methoxy-m-toluidine (p-cresidine)) (CAS No.: 120-71-8)	0.05
97.	城式醋酸鉛 (Acetic acid, lead salt, basic)*** (CAS No.: 51404-69-4)	-
98.	4-氨基聯苯 (Biphenyl-4-ylamine) (CAS No.: 92-67-1)	0.05

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No.	物質名稱 (Substance Name)	RL
99.	十溴聯苯醚 (Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)) (CAS No.: 1163-19-5)	0.05
100.	六氫苯二甲酸酐 (Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2- dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	0.05
101.	偶氮[二]甲醯胺 (Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (CAS No.: 123-77-3)	0.05
102.	二氯二丁基錫 (Dibutyltin dichloride) (DBTC)*** (CAS No.: 683-18-1)	-
103.	硫酸二乙酯 (Diethyl sulphate) (CAS No.: 64-67-5)	0.05
104.	鄰苯二甲酸二異戊酯 (Diisopentyl phthalate) (CAS No.: 605-50-5)	0.05
105.	硫酸二甲酯 (Dimethyl sulphate) (CAS No.: 77-78-1)	0.05
106.	2-(1-甲基丙基)-4,6-二硝基苯酚 (Dinoseb (6-sec-butyl-2,4-dinitrophenol)) (CAS No.: 88-85-7)	0.05
107.	雙(十八酸基)二氧代三鉛 (Dioxobis(stearato)trilead)*** (CAS No.: 12578-12-0)	-
108.	C16-18-脂肪酸鉛鹽 (Fatty acids, C16-18, lead salts)*** (CAS No.: 91031-62-8)	-
109.	呋喃 (Furan) (CAS No.: 110-00-9)	0.05
110.	全氟十一酸 (Henicosfluoroundecanoic acid) (CAS No.: 2058-94-8)	0.05
111.	全氟十四酸 (Heptacosfluorotetradecanoic acid) (CAS No.: 376-06-7)	0.05
112.	甲基六氫苯酐 (Hexahydromethylphthalic anhydride) (CAS No.: 25550-51-0) 4-甲基六氫苯酐 (Hexahydro-4-methylphthalic anhydride) (CAS No.: 19438-60-9) 3-甲基六氫苯酐 (Hexahydro-3-methylphthalic anhydride) (CAS No.: 57110-29-9) 1-甲基六氫苯酐 (Hexahydro-1-methylphthalic anhydride) (CAS No.: 48122-14-1)	0.05
113.	四氟硼酸鉛 (II) (Lead bis(tetrafluoroborate))*** (CAS No.: 13814-96-5) (※ D)	-
114.	氨基氰鉛鹽 (Lead cyanamidate)*** (CAS No.: 20837-86-9)	-
115.	硝酸鉛 (Lead dinitrate)*** (CAS No.: 10099-74-8)	-
116.	氧化鉛 (Lead monoxide) (lead oxide)*** (CAS No.: 1317-36-8)	-
117.	碱式硫酸鉛 (Lead oxide sulfate)*** (CAS No.: 12036-76-9)	-
118.	鈦酸鉛 (Lead titanium trioxide)*** (CAS No.: 12060-00-3)	-
119.	鈦酸鉛鋯 (Lead Titanium Zirconium Oxide)*** (CAS No.: 12626-81-2)	-
120.	甲氧基乙酸 (Methoxyacetic acid) (CAS No.: 625-45-6)	0.05
121.	環氧丙烷 (Methyloxirane (Propylene oxide)) (CAS No.: 75-56-9)	0.05
122.	N,N-二甲基甲醯胺 (N,N-dimethylformamide; dimethyl formamide) (CAS No.: 68-12-2)	0.05
123.	N-甲基乙醯胺 (N-methylacetamide) (CAS No.: 79-16-3)	0.05
124.	鄰苯二甲酸正戊異戊酯 (n-pentyl-isopentylphthalate) (CAS No.: 776297-69-9)	0.05
125.	鄰氨基偶氮甲苯 (o-aminoazotoluene) (CAS No.: 97-56-3)	0.05

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No.	物質名稱 (Substance Name)	RL
126.	四氧化鉛 (Orange lead (lead tetroxide))*** (CAS No.: 1314-41-6)	-
127.	鄰甲苯胺 (o-Toluidine) (CAS No.: 95-53-4)	0.05
128.	全氟十三酸 (Pentacosfluorotridecanoic acid) (CAS No.: 72629-94-8)	0.05
129.	氧化鉛與硫酸鉛的複合物 (Pentalead tetraoxide sulphate)*** (CAS No.: 12065-90-6)	-
130.	C.I.顏料黃41 (Pyrochlore, antimony lead yellow)*** (CAS No.: 8012-00-8)	-
131.	含鉛的矽酸鋇 (Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped)*** (CAS No.: 68784-75-8) (※ B)	-
132.	矽酸鉛 (Silicic acid, lead salt)*** (CAS No.: 11120-22-2)	-
133.	亞硫酸鉛(II) (Sulfurous acid, lead salt, dibasic)*** (CAS No.: 62229-08-7)	-
134.	四乙基鉛 (Tetraethyllead)*** (CAS No.: 78-00-2)	-
135.	三鹼式硫酸鉛/ C.I. 顏料白 (Tetralead trioxide sulphate)*** (CAS No.: 12202-17-4)	-
136.	全氟十二酸 (Tricosfluorododecanoic acid) (CAS No.: 307-55-1)	0.05
137.	碱式碳酸鉛 (Trilead bis(carbonate) dihydroxide (basic lead carbonate))*** (CAS No.: 1319-46-6)	-
138.	磷酸氧化鉛 (Trilead dioxide phosphonate)*** (CAS No.: 12141-20-7)	-
139.	分支或線性的乙氧基王基酚·包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 (4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof])	0.05
140.	全氟辛酸銨 (Ammonium pentadecafluorooctanoate) (APFO)*** (CAS No.: 3825-26-1)	-
141.	鎘 (Cadmium) (Cd) (CAS No.: 7440-43-9)	0.005
142.	氧化鎘 (Cadmium oxide)*** (CAS No.: 1306-19-0)	-
143.	鄰苯二甲酸二戊酯 (Dipentyl phthalate) (DPP) (CAS No.: 131-18-0)	0.05
144.	全氟辛酸 (Pentadecafluorooctanoic acid) (PFOA) (CAS No.: 335-67-1)	0.05
145.	硫化鎘 (Cadmium sulphide)*** (CAS No.: 1306-23-6)	-
146.	鄰苯二甲酸二正己酯 (Di-n-hexyl phthalate) (DNHP) (CAS No.: 84-75-3)	0.05
147.	直接紅28 (Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)) (CAS No.: 573-58-0)	0.05
148.	直接黑38 (Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)) (CAS No.: 1937-37-7)	0.05
149.	亞乙基硫脲 (Imidazolidine-2-thione (2-imidazoline-2-thiol)) (CAS No.: 96-45-7)	0.05
150.	醋酸鉛 (Lead di(acetate))*** (CAS No.: 301-04-2)	-
151.	磷酸三(二甲苯)酯 (Trixylyl phosphate) (CAS No.: 25155-23-1)	0.05

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No.	物質名稱 (Substance Name)	RL
152.	鄰苯二甲酸二己酯(支鏈和直鏈) (1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear) (CAS No.: 68515-50-4)	0.05
153.	氯化鎘 (Cadmium chloride)*** (CAS No.: 10108-64-2)	-
154.	過硼酸鈉 (Sodium perborate; perboric acid, sodium salt)***	-
155.	過氧偏硼酸鈉 (Sodium peroxometaborate)*** (CAS No.: 7632-04-4)	-
156.	2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑 (紫外線吸收劑328) (2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol) (UV-328) (CAS No.: 25973-55-1)	0.05
157.	2-[2-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 (紫外線吸收劑320) (2-benzotriazol-2-yl-4,6-di-tert-butylphenol) (UV-320) (CAS No.: 3846-71-7)	0.05
158.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫 (2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE))*** (CAS No.: 15571-58-1)	-
159.	氟化鎘 (Cadmium fluoride)*** (CAS No.: 7790-79-6)	-
160.	硫酸鎘 (Cadmium sulphate)*** (CAS No.: 10124-36-4, 31119-53-6)	-
161.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫和單辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 (Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE))***	-
162.	鄰苯二甲酸二(C6-10)烷基酯; 鄰苯二甲酸二己、二辛、二癸酯混合物; 鄰苯二甲酸二己酯 ≥ 0.3% (1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate) (CAS No.: 68515-51-5, 68648-93-1)	0.05
163.	5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[1], 5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[2], [任何[1]和[2]或者其任意組合的單獨異構物或其任何組合] (5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof])	0.05
164.	1,3-丙烷磺內酯 (1,3-propanesultone) (CAS No.: 1120-71-4)	0.05
165.	2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(紫外線吸收劑327) (2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol) (UV-327) (CAS No.: 3864-99-1)	0.05
166.	2-(3-仲-丁基-5-叔丁基-2-羥基)苯并三唑(紫外線吸收劑 UV-350) (2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol) (UV-350) (CAS No.: 36437-37-3)	0.05
167.	硝基苯 (Nitrobenzene) (CAS No.: 98-95-3)	0.05
168.	全氟壬酸 (Perfluorononan-1-oic-acid and its sodium and ammonium salts) (CAS No.: 375-95-1, 21049-39-8, 4149-60-4)	0.05
169.	苯并(a)芘 (Benzo[def]chrysene (Benzo[a]pyrene)) (CAS No.: 50-32-8)	0.05

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No.	物質名稱 (Substance Name)	RL
170.	雙酚A (4,4'-isopropylidenediphenol) (Bisphenol A) (CAS No.: 80-05-7)	0.05
171.	4-庚基苯酚·支鍊及直鍊 (4-HPbl)·包括含有7個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支7個碳烷基鏈的UVCB物質 (4-Heptylphenol, branched and linear (4-HPbl) [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	0.05
172.	十九氟癸酸及其鈉和銨鹽 (Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts) (CAS No.: 3108-42-7, 335-76-2, 3830-45-3)	0.05
173.	對(1,1-二甲基丙基)苯酚 (p-(1,1-dimethylpropyl)phenol) (CAS No.: 80-46-6)	0.05
174.	全氟己基磺酸及其鹽類 (Perfluorohexane-1-sulphonic acid and its salts) (PFHxS) (CAS No.: 355-46-4)	0.05
175.	德克隆(涵蓋各個反式及順式同分異構物或者相關組合) (1,6,7,8,9,14,15,16,17, 17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof])	0.05
176.	苯並[a]蔥 (Benz[a]anthracene) (CAS No.: 56-55-3)	0.05
177.	硝酸鎘 (Cadmium nitrate)*** (CAS No.: 10325-94-7)	-
178.	碳酸鎘 (Cadmium carbonate)*** (CAS No.: 513-78-0)	-
179.	氫氧化鎘 (Cadmium hydroxide)*** (CAS No.: 21041-95-2)	-
180.	苯並[a]菲 (Chrysene) (CAS No.: 218-01-9)	0.05
181.	1,3,4-噻唑烷-2,5-二硫酮·甲醛及4-庚基苯酚支鍊及直鍊反應物, (RP-HP) [含≥0.1% w/w 支鍊及直鍊4-庚基苯酚] (Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]) (※ R)	-
182.	鄰苯二甲酸二環己酯 (Dicyclohexyl phthalate) (DCHP) (CAS No.: 84-61-7)	0.05
183.	1,2,4-苯三甲酸酐 (Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)) (CAS No.: 552-30-7)	0.05
184.	苯並(G,H,I)芘 (Benzo[ghi]perylene) (CAS No.: 191-24-2)	0.05
185.	八甲基環四矽氧烷 (Octamethylcyclotetrasiloxane) (D4) (CAS No.: 556-67-2)	0.05
186.	十甲基環五矽氧烷 (Decamethylcyclopentasiloxane) (D5) (CAS No.: 541-02-6)	0.05
187.	十二甲基環六矽氧烷 (Dodecamethylcyclohexasiloxane) (D6) (CAS No.: 540-97-6)	0.05
188.	氧化硼鈉 (Disodium octaborate)*** (CAS No.: 12008-41-2)	-
189.	乙二胺 (Ethylenediamine) (CAS No.: 107-15-3)	0.05
190.	鉛 (Lead) (Pb) (CAS No.: 7439-92-1) (●)	0.005
191.	氫化三聯苯 (Terphenyl, hydrogenated) (CAS No.: 61788-32-7)	0.05
192.	2,2-雙(4-羥基苯基)-4-甲基戊烷 (2,2-bis(4'-hydroxyphenyl)-4-methylpentane) (CAS No.: 6807-17-6)	0.05

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No.	物質名稱 (Substance Name)	RL
193.	苯駢(k)螢蔥 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)	0.05
194.	苯駢芘 (Fluoranthene) (CAS No.: 206-44-0)	0.05
195.	菲 (Phenanthrene) (CAS No.: 85-01-8)	0.05
196.	芘 (Pyrene) (CAS No.: 129-00-0)	0.05
197.	1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚-2-酮 (1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)) (CAS No.: 15087-24-8)	0.05
198.	2,3,3,3-四氟-2-(七氟丙氧基)丙酸·鹽類·及其醯鹵(涵蓋他們其個別和組合之同分異構物) (2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof))	0.05
199.	2-甲氧基乙基乙酯 (2-methoxyethyl acetate) (CAS No.: 110-49-6)	0.05
200.	4-叔丁基苯酚 (4-tert-butylphenol) (CAS No.: 98-54-4)	0.05
201.	三(4-壬基,支鏈及直鏈)亞磷酸酯 (Tris(4-nonylphenyl, branched and linear) phosphite (TNPP))	0.05
202.	二異己基鄰苯二甲酸酯 (Diisohexyl phthalate) (CAS No.: 71850-09-4)	0.05
203.	2-苄基-2-二甲氨基-1-(4-嗎啉基)丁酮 (2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone) (CAS No.: 119313-12-1)	0.05
204.	2-甲基-1-(4-甲硫基苯基)-2-嗎啡基-1-丙酮 (2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one) (CAS No.: 71868-10-5)	0.05
205.	全氟丁磺酸及其相關鹽類 (Perfluorobutane sulfonic acid (PFBS) and its salts)	0.05
206.	1-乙烯咪唑 (1-vinylimidazole) (CAS No.: 1072-63-5)	0.05
207.	2-甲基咪唑 (2-methylimidazole) (CAS No.: 693-98-1)	0.05
208.	4-羥基苯甲酸丁酯 (Butyl 4-hydroxybenzoate) (CAS No.: 94-26-8)	0.05
209.	二正丁基雙(乙醯丙酮基)錫 (Dibutylbis(pentane-2,4-dionato-O,O')tin)*** (CAS No.: 22673-19-4)	-
210.	雙(2-(2-甲氧基乙氧基)乙基)醚 (Bis(2-(2-methoxyethoxy)ethyl) ether) (CAS No.: 143-24-8)	0.05
211.	二月桂酸二辛基錫·錫烷·二辛基·雙(椰油醯氧基)衍生物·以及任何其他錫烷·二辛基·雙(脂肪醯氧基)衍生物。其中C12為脂肪醯氧基部分的主要碳原子數 (Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety)***	-
212.	1,4-二氧陸圓 (1,4-dioxane) (CAS No.: 123-91-1)	0.05
213.	2,2-雙(溴甲基)-1,3-丙二醇 (2,2-bis(bromomethyl)propane-1,3-diol) (BMP) (CAS No.: 3296-90-0)	0.05
	3-溴-2,2-雙(溴甲基)-1-丙醇 (2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol) (TBNPA) (CAS No.: 36483-57-5, 1522-92-5)	0.05
	2,3-二溴-1-丙醇 (2,3-dibromo-1-propanol) (2,3-DBPA) (CAS No.: 96-13-9)	0.05

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No.	物質名稱 (Substance Name)	RL
214.	2-(4-叔丁基苄基)丙醛及其個別立體異構物 ((2R)-3-(4-叔丁基苄基)-2-甲基丙醛; 2-(4-叔丁基苄基)丙醛; (2S)-3-(4-叔丁基苄基)-2-甲基丙醛) (2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers ((2R)-3-(4-tert-butylphenyl)-2-methylpropanal; 2-(4-tert-butylbenzyl)propionaldehyde; (2S)-3-(4-tert-butylphenyl)-2-methylpropanal)) (CAS No.: 75166-31-3; 80-54-6; 75166-30-2)	0.05
215.	雙酚B (4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)) (CAS No.: 77-40-7)	0.05
216.	戊二醛 (Glutaral) (CAS No.: 111-30-8)	0.05
217.	中鏈氯化石蠟 (C14-16); 中鏈氯化石蠟 (C14-17); 二、三及四氯十四烷; 十四烷氯衍生物 (Alkanes, C14-16, chloro; Alkanes, C14-17, chloro; di-, tri- and tetrachlorotetradecane; Tetradecane, chloro derivs.) (CAS No.: 1372804-76-6; 85535-85-9; 198840-65-2)	0.05
218.	硼酸鈉鹽 (Orthoboric acid, sodium salt)*** (CAS No.: 13840-56-7) · 硼酸鈉鹽及其水合物; 硼酸二鈉鹽; 硼酸三鈉; 硼酸鈉; 硼酸鈉鹽 (1:1) (boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1)) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 14890-53-0) (※ U)	-
219.	經由低聚合反應烷基化的苯酚產物(主要在對位位置)帶有12個碳的支鏈或直鏈 · 並涵蓋各種同分異構物及/或其各種組合 (支鏈 4-十二烷基苯酚; 4-異十二烷基苯酚; 4-異十二烷基苯酚; 支鏈十二烷基苯酚; 四丙烯基苯酚衍生物; 四丙烯基苯酚) (Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (Phenol, 4-dodecyl, branched; 4-isododecylphenol; Phenol, 4-isododecyl-; Phenol, dodecyl-, branched; Phenol, (tetrapropenyl) derivatives; Phenol, tetrapropylene-) (CAS No.: 210555-94-5; 27459-10-5; 27147-75-7; 121158-58-5; 74499-35-7; 57427-55-1)	0.05
220.	(±)-1,7,7-三甲基-3-[(4-甲基苄基)亞甲基]二環[2.2.1]庚烷-2-酮 · 包括各個異構體和/或其組合 ((±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof) (4-MBC)	0.05
221.	6,6'雙叔丁基-2,2'-亞甲基雙對甲酚 (6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol) (DBMC) (CAS No.: 119-47-1)	0.05
222.	硫-(三環[5.2.1.0'2,6]癸-3-烯-8(或9)-基) 氧-(異丙基或異丁基或2-乙基己基) 氧-(異丙基或異丁基或2-乙基己基)二硫代磷酸酯 (S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate) (CAS No.: 255881-94-8) (※ G)	0.05
223.	三(2-甲氧基乙氧基)乙烯基矽烷 (Tris(2-methoxyethoxy)vinylsilane) (CAS No.: 1067-53-4)	0.05
224.	N-羥甲基丙烯醯胺 (N-(hydroxymethyl)acrylamide) (CAS No.: 924-42-5)	0.05
225.	1,2-雙(2,4,6-三溴苯氧基)乙烷 (1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]) (CAS No.: 37853-59-1)	0.05
226.	四溴雙酚A (2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol) (CAS No.: 79-94-7)	0.05
227.	雙酚S (4,4'-sulphonyldiphenol) (CAS No.: 80-09-1)	0.05

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No.	物質名稱 (Substance Name)	RL
228.	偏硼酸鋇 (Barium diboron tetraoxide)*** (CAS No.: 13701-59-2) (※ A)	-
229.	雙(2-乙基己基)四溴鄰二甲酸酯 · 覆蓋任何單個異構體和/或其組合 (Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof)	0.05
230.	4-羥基苯甲酸 2-甲基丙酯 (Isobutyl 4-hydroxybenzoate) (CAS No.: 4247-02-3)	0.05
231.	三聚氰胺 (Melamine) (CAS No.: 108-78-1)	0.05
232.	全氟庚酸及其鹽類 (Perfluoroheptanoic acid and its salts)	0.05
233.	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)嗎啉和2,2,3,3,5,5,6,6-八氟烷-4-(七氟丙基)嗎啉的反應物料 (reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine) (※ I)	0.05
234.	4,4'-二氯二苯基磺 (Bis(4-chlorophenyl) sulphone) (CAS No.: 80-07-9)	0.05
235.	(2,4,6-三甲基苯甲醯基)二苯基氧化磷 (Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) (CAS No.: 75980-60-8)	0.05
236.	2,4,6-三叔丁基苯酚 (2,4,6-tri-tert-butylphenol) (CAS No.: 732-26-3)	0.05
237.	2-(2H-苯並三唑-2-基)-4-(1,1,3,3-四甲基丁基)苯酚 (紫外線吸收劑329) (2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (CAS No.: 3147-75-9)	0.05
238.	2-二甲氨基-2-(4-甲基)苄基-1-[4-(4-嗎啉基)苄基]-1-丁酮 (2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one) (CAS No.: 119344-86-4)	0.05
239.	2-(5-氟-2-苯三唑基)-6-叔丁基-4-甲基苯酚 (紫外線吸收劑326) (Bumetrizole) (CAS No.: 3896-11-5)	0.05
240.	2-苯基丙烯與苯酚的低聚合烷基化反應物 (Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol)	0.05
241.	過氧化二異丙苯 (Bis(α,α-dimethylbenzyl) peroxide) (CAS No.: 80-43-3)	0.05
242.	磷酸三苯酯 (Triphenyl phosphate) (CAS No.: 115-86-6)	0.05
243.	6-[(C10-C13)-烷基-(支鏈 · 不飽和)-2,5-二氧代吡咯烷-1-基]己酸 (6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid) (CAS No.: 2156592-54-8)	0.05
244.	硫代磷酸(O,O,O-三苯基)酯 (O,O,O-triphenyl phosphorothioate) (CAS No.: 597-82-0)	0.05
245.	八甲基三矽氧烷 (Octamethyltrisiloxane) (CAS No.: 107-51-7)	0.05
246.	全氟三丙胺 (Perfluamine) (CAS No.: 338-83-0)	0.05
247.	三苯基硫代磷酸與叔丁基苯衍生物的反應物 (Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives) (CAS No.: 192268-65-8)	0.05
248.	甲基三(三甲基矽烷氧基)矽烷 (1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane) (CAS No.: 17928-28-8)	0.05
249.	十甲基四矽氧烷 (Decamethyltetrasiloxane) (CAS No.: 141-62-8)	0.05
250.	活性棕51 (Reactive Brown 51)*** (※ J)	-
251.	十溴二苯乙烷 (1,1'-(ethane-1,2-diyl)bis[pentabromobenzene]) (DBDPE) (CAS No.: 84852-53-9)	0.05

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測試報告

Test Report

號碼(No.): EKR26100077

日期(Date): 16-Jan-2026

頁數(Page): 18 of 20

國巨股份有限公司(國巨/飛元/華亞) (YAGEO CORPORATION (YAGEO/PHYCOMP/COMPOSTAR))
23145新北市新店區寶橋路233-1號3樓 (3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145,
TAIWAN)

(2) 高關注物質(SVHC)建議清單 Proposed list of SVHC (2025/09/01) :

No.	物質名稱 (Substance Name)	RL
1.	4,4'-[2,2,2-三氟-1-(三氟甲基)亞乙基]雙酚及其鹽類 (4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts)	0.05
2.	4,4'-二羥基二苯甲烷 (雙酚F) (4,4'-methylenediphenol) (CAS No.: 620-92-8)	0.05
3.	正己烷 (N-hexane) (CAS No.: 110-54-3)	0.05

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測試報告

Test Report

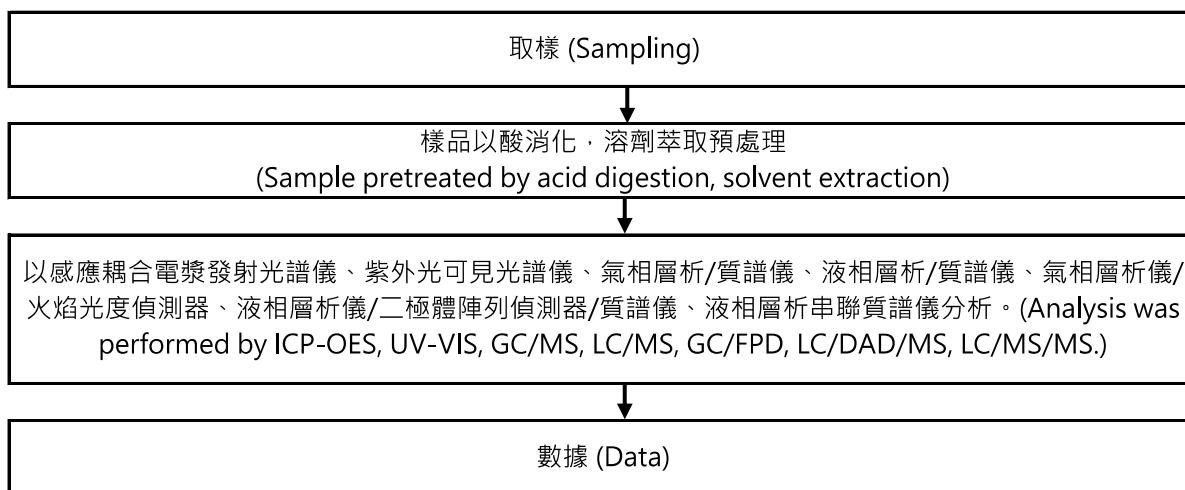
號碼(No.): EKR26100077

日期(Date): 16-Jan-2026

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SVHC 分析流程圖 (Analytical flow chart of SVHC)



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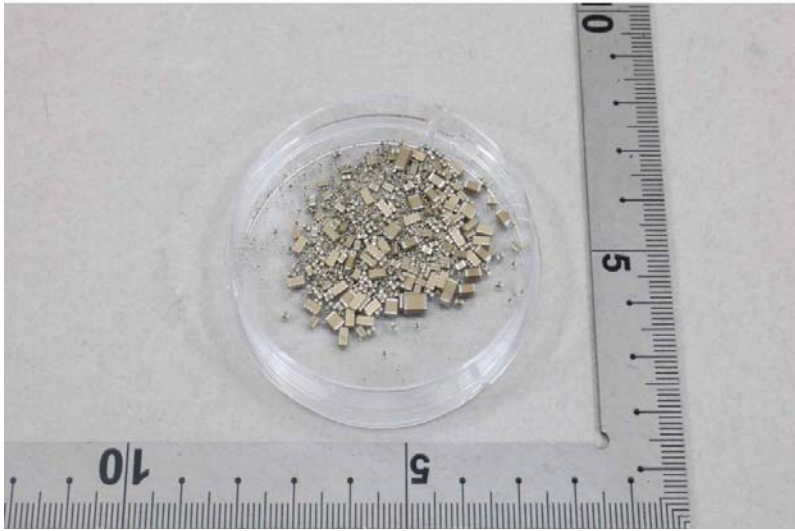
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頁數(Page): 20 of 20

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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

EKR26100077



** 報告結尾 (End of Report) **

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Test Report

No.: SHAEC25030900307

Date: Dec 04, 2025

Page 1 of 10

Client Name: YAGEO CORPORATION(YAGEO/PHYCOMP/COMPOSTAR BRAND)

Client Address: 3F,NO.233-1 BAOQIAO RD.,XINDIAN DIST.,NEW TAIPEI CITY23145, TAIWAN

Sample Name: ARRAY CHIP RESISTORS

Model No.: YC series

The above sample(s) and information were provided by the client.

SGS Job No.: SUP25-004268

Sample Receiving Date: Nov 21, 2025

Testing Period: Nov 21, 2025 ~ Dec 03, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results
Element(s)	See Results
Halogen	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Dora Hu
Approved Signatory

Scan to see the report



1992AD38



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Chemical Laboratory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A4	SHA25-0309003-0001.C004	Black/silver/white ARRAY CHIP RESISTORS (mix all*)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

- Test Method:**
- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES/AAS.
 - (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES/AAS.
 - (3) With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP-OES.
 - (4) With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5) With reference to IEC 62321-6:2015, determination of PBB and PBDE by GC-MS.
 - (6) With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A4
Lead (Pb)	1000	mg/kg	2	1413 [▲]
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND



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Test Report

No.: SHAEC25030900307

Date: Dec 04, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A4
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) ▲According to the declaration from the client, Lead (Pb) is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(c)-I]: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound. More information about exemption can be found via the following link:
<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A4
Antimony(Sb)	mg/kg	10	ND

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A4
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

mix all*: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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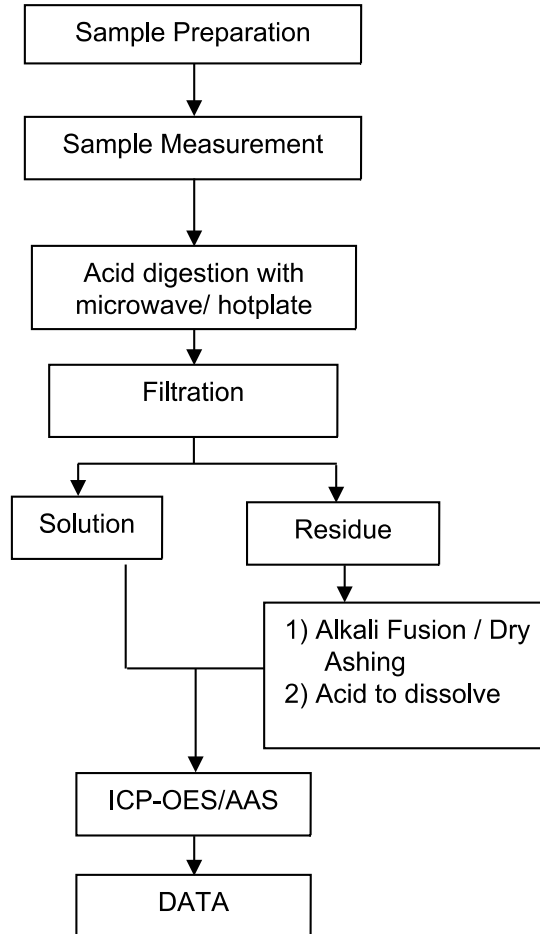
ATTACHMENTS

Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: John Cheng

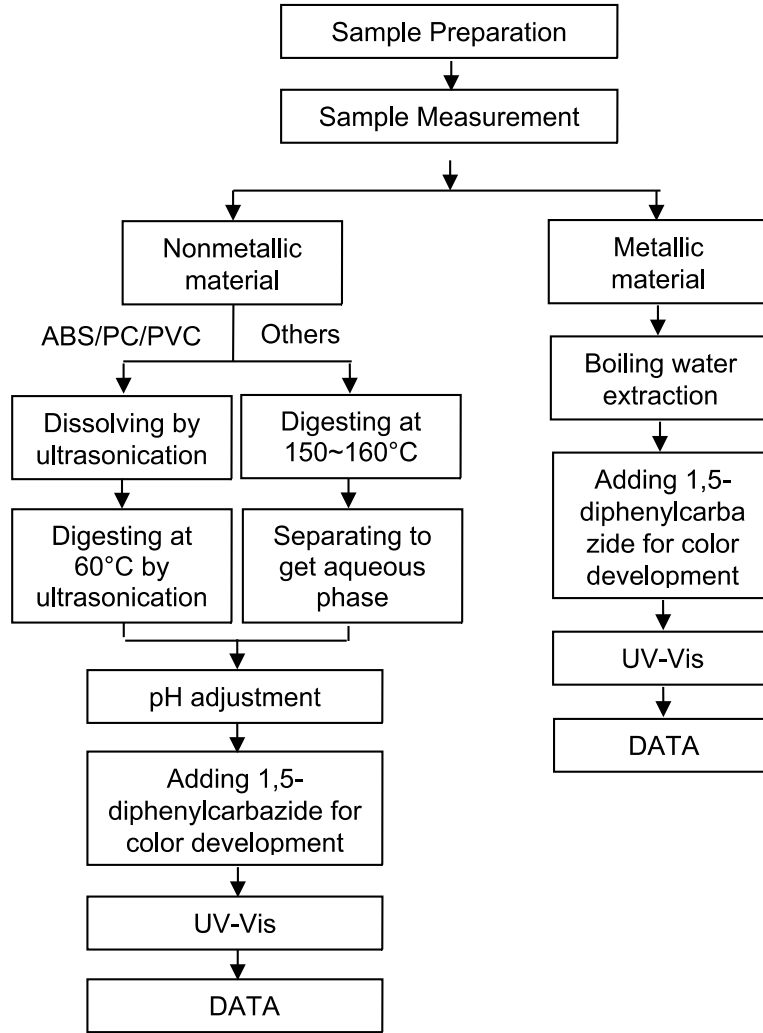
These samples were dissolved totally by pre-conditioning method according to below flow chart.



ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang
 Name of the person in charge of testing: Xiaolong Yang



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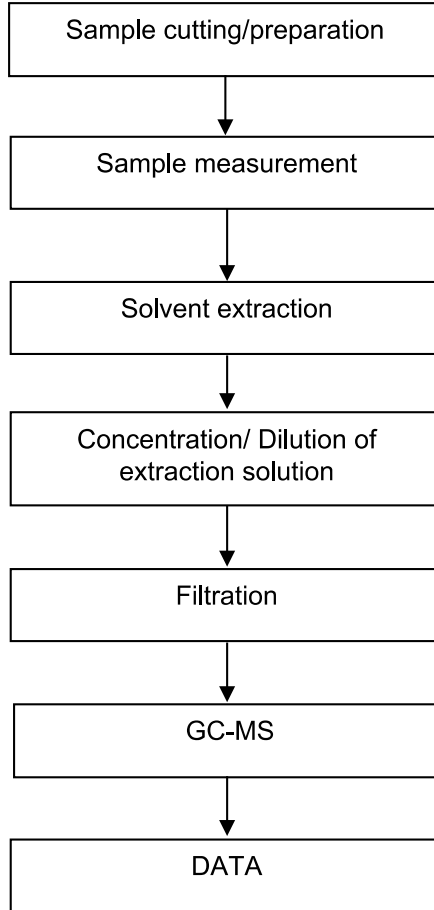
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ATTACHMENTS

PBB(s)/PBDE(s) Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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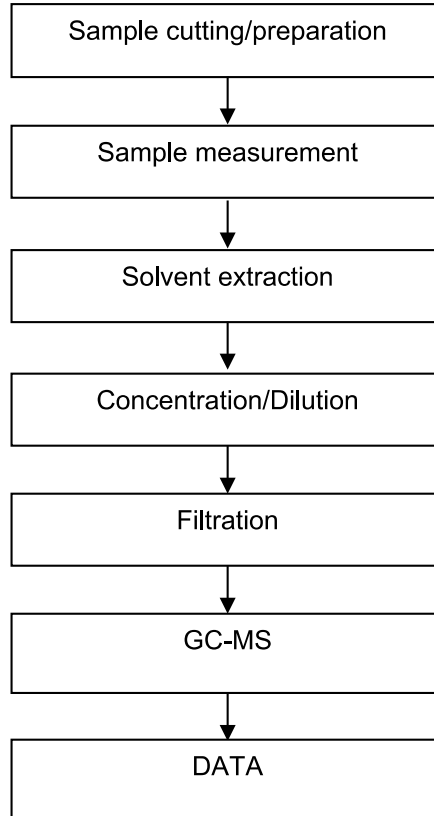
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ATTACHMENTS

Phthalates Testing Flow Chart

Name of the person who made testing: xiaoqiang zhang

Name of the person in charge of testing: Carol Cui



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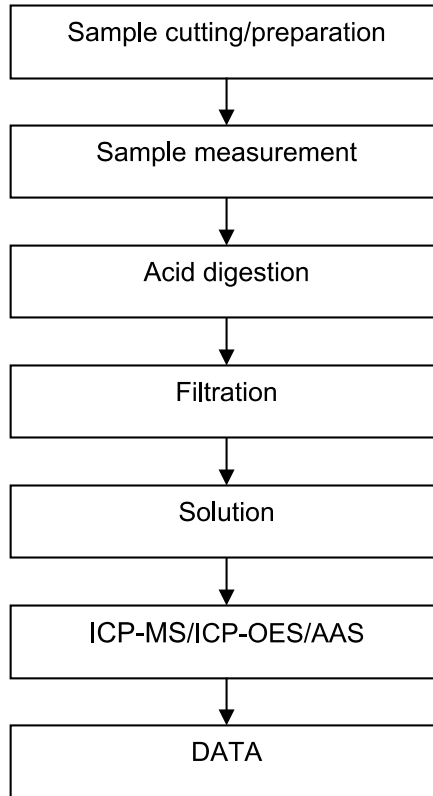
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Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: Carey Shan



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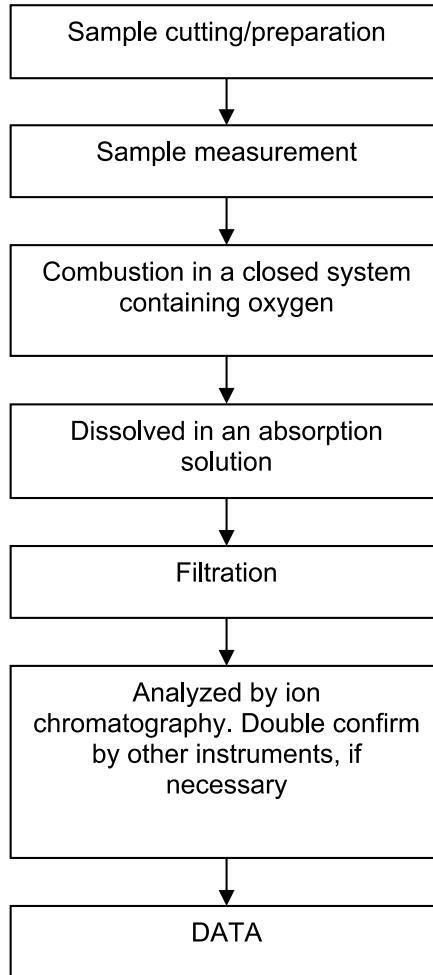
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ATTACHMENTS

Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Jinjing Sun



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Test Report

No.: SHAEC25030900307

Date: Dec 04, 2025

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Sample Photo:



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Test Report (SVHC)

No.: SHAEC25002003601

Date: Feb 13, 2025

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Client Name: YAGEO CORPORATION(YAGEO/PHYCOMP/COMPOSTAR BRAND)

Client Address: 3F,NO.233-1 BAOQIAO RD.,XINDIAN DIST.,NEW TAIPEI CITY23145, TAIWAN

Sample Name: CHIP RESISTORS

Model No.: RC/YC/TC/ATV/RV/SR/TR/RE/AF/AA/AC/AR/RT/RL/PT/AL/CP/AC50PPM/AS/AH/RA/RM/HV/AG/AE series

The above sample(s) and information were provided by the client.

SGS Job No.: SUP24-003805

Sample Receiving Date: Jan 24, 2025

Testing Period: Jan 24, 2025 ~ Feb 07, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
 (i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 As requested by client, Potential SVHC screening is performed according to:
 (i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
 (ii) Four (4) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 247 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
--	------

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jenny Lan
Approved Signatory

Scan to see the report



A60CCE02



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According to the specified scope and evaluation screening, the results of 5 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Black/silver/white CHIP RESISTORS	A1	SHA25-0020036-0001.C001

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
III	Boric acid*	-	NA [^]	0.005
III	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	NA [^]	0.005
III	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	NA [^]	0.005
VII	Diboron trioxide*	1303-86-2	NA [^]	0.005
VIII	Lead bis(tetrafluoroborate)*	13814-96-5	NA [^]	0.005
VIII	Lead cyanamidate*	20837-86-9	NA [^]	0.005
VIII	Lead dinitrate*	10099-74-8	NA [^]	0.005
VIII	Lead monoxide*	1317-36-8	NA [^]	0.005
VIII	Lead oxide sulfate*	12036-76-9	NA [^]	0.005
VIII	Lead tetroxide (orange lead)*	1314-41-6	NA [^]	0.005
VIII	Lead titanium trioxide*	12060-00-3	NA [^]	0.005
VIII	Lead titanium zirconium oxide*	12626-81-2	NA [^]	0.005
VIII	Sulfurous acid, lead salt, dibasic*	62229-08-7	NA [^]	0.005
VIII	Tetralead trioxide sulphate*	12202-17-4	NA [^]	0.005
VIII	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	NA [^]	0.005
X	Lead di(acetate)*	301-04-2	NA [^]	0.005
XIX	Disodium octaborate*	12008-41-2	NA [^]	0.005
XIX	Lead	7439-92-1	NA [^]	0.005
XXV	Orthoboric acid, sodium salt*	13840-56-7	NA [^]	0.005
-	Other SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

(1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

(2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

(3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.

** The result is based on the calculation of selected marker(s) and to the worst-case scenario.

Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.

Calculated concentration of Barium diboron tetroxide is based on water extractive boron and barium detected by ICP-OES.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except



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molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.

- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).
(5) / = Potential SVHC

NA^ = Upon further test verification on the specific detected elements or substances of SVHC and also information provided from client, the possibility that the elements or substances content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected elements or substances have a non-SVHC source.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetrolead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclotrasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	Resorcinol	108-46-3	0.050
/	249	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	250	Decamethyltetrasiloxane	141-62-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
/	251	Dodecamethylpentasiloxane	141-63-9	0.050
/	252	Hexamethyldisiloxane	107-46-0	0.050



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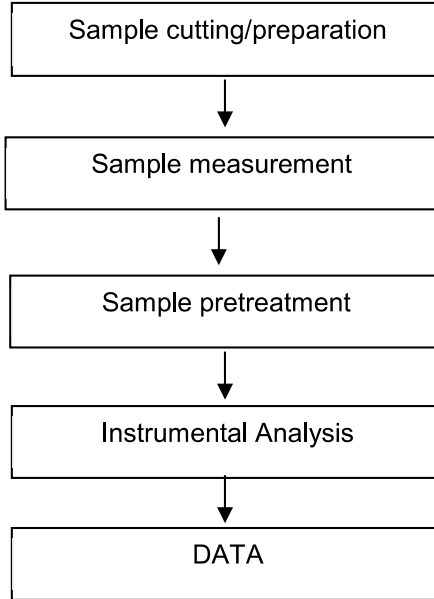
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ATTACHMENTS

Testing Flow Chart

Name of the person who made testing: Jo Li/ Winnie Shi

Name of the person in charge of testing: Katie Huang



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Sample photos:



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检测报告

Test Report

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报告抬头公司名称 广东松田科技股份有限公司
Company Name GUANG DONG SUNTEK WIRE CO.,LTD
shown on Report
地 址 广东省台山市水步镇文华开发区 B 区 8 号
Address NO.8 ZONEB,WENHUA DEVELOPMENT ZONE,SHUIBU TOWN TAISHAN CITY
GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	漆包铜圆线
Sample Name	Enamelled Round Copper Wire
样品颜色	本色
Color	Natural
样品接收日期	2025.08.25
Sample Received Date	Aug. 25, 2025
样品检测日期	2025.08.25-2025.09.01
Testing Period	Aug. 25, 2025 to Sep. 1, 2025

测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).



批准
Approved by

郑晴涛

郑晴涛

技术经理 Technical Manager

日期
Date

2025.09.01

No. R735792003

广东省深圳市宝安区新安街道兴东社区华测检测大楼

华测检测认证集团股份有限公司

Center Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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测试摘要 Executive Summary:

测试要求

TEST REQUEST

- 1) 欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863
RoHS Directive 2011/65/EU with amendment (EU) 2015/863
- 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs),
邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)
Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)),
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs),
Phthalates (DBP, BBP, DEHP, DIBP)
- 2) 根据客户要求, 对所提交样品中的砷(As), 铍(Be), 锑(Sb), 锡(Sn), 氟(F), 氯(Cl),
溴(Br), 碘(I), 六溴环十二烷(HBCDD), 全氟辛酸(PFOA), 全氟辛烷磺酸(PFOS),
邻苯二甲酸酯进行测试。
As specified by client, to test Arsenic(As), Beryllium(Be), Antimony(Sb), Tin(Sn),
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Hexabromocyclododecane
(HBCDD), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS),
Phthalates in the submitted sample(s).
- 3) 欧盟指令 2000/53/EC 即 ELV 指令
2000/53/EC is the End-of-Life Vehicle Directive (ELV)
- 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),
Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)
- 4) 客户要求
Client's requirement
- 全氟己酸(PFHxA)及其盐和相关物质
Perfluorohexanoic acid (PFHxA) and its salts & related substances

测试结果

CONCLUSION

符合
PASS

见结果页
See test result(s)

符合
PASS

见结果页
See test result(s)

*****详细结果, 请见下页*****

***** For further details, please refer to the following page(s) *****

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检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
砷 Arsenic(As)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
铍 Beryllium(Be)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锡 Tin(Sn)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
全氟辛酸 Perfluorooctanoic Acid(PFOA)*1	EN 17681-1:2025	LC-MS-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS) *1	EN 17681-1:2025	LC-MS-MS
邻苯二甲酸酯 Phthalates	参考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

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检测结果 1 Test Result(s) 1

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

检测结果 2 Test Result(s) 2

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
砷 Arsenic (As)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
铍 Beryllium (Be)	N.D.	2 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
锑 Antimony (Sb)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
锡 Tin (Sn)	N.D.	10 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
全氟辛酸 Perfluorooctanoic Acid (PFOA) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	30 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0, 68515-48-0	N.D.	50 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0, 68515-49-1	N.D.	50 mg/kg
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0*1	N.D.	30 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3*1	N.D.	50 mg/kg

检测结果 3 Test Result(s) 3

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	25 mg/kg	---
二溴联苯 Dibromobiphenyl	N.D.	25 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	25 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	25 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	25 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	25 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	25 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	25 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	25 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	25 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	25 mg/kg	---
二溴二苯醚 Dibromodiphenyl ether	N.D.	25 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	25 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	25 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	25 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	25 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	25 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	25 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	25 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	25 mg/kg	

备注: 对于检测铅, 镉, 汞, 砷, 铍, 锑, 锡之样品已消解完全。
 -N.D. = 未检出 (小于方法检出限)
 -mg/kg = ppm = 百万分之一
 -1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Tin.
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million
 -1000 mg/kg = 0.1%

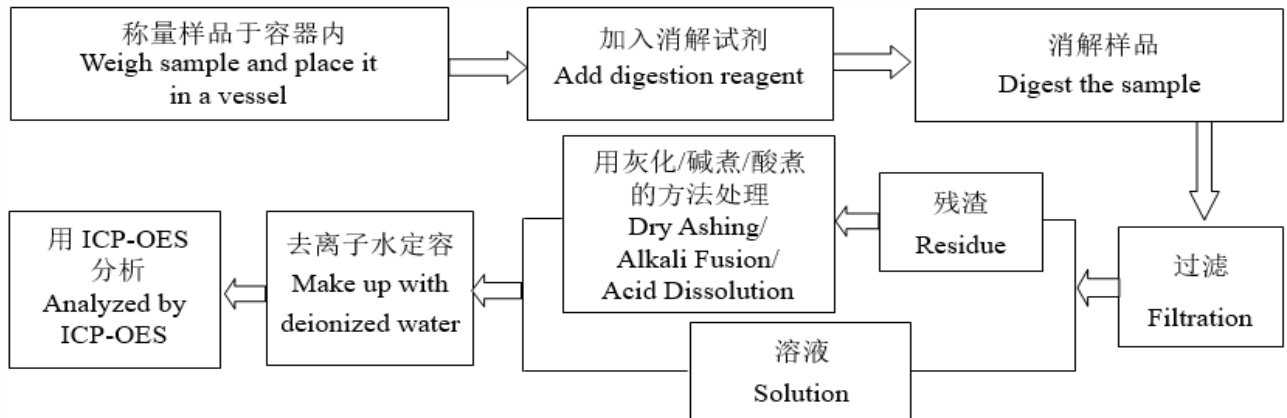
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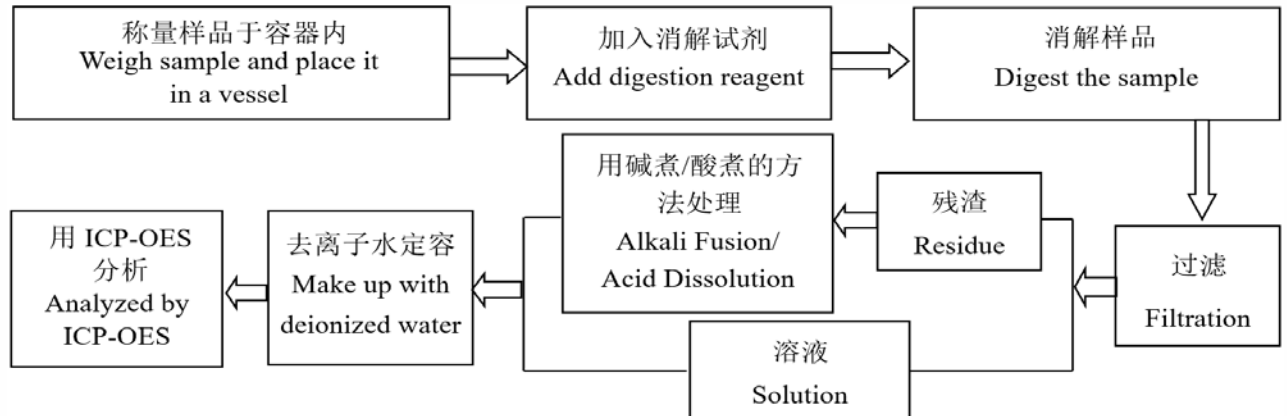
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检测流程 Test Process

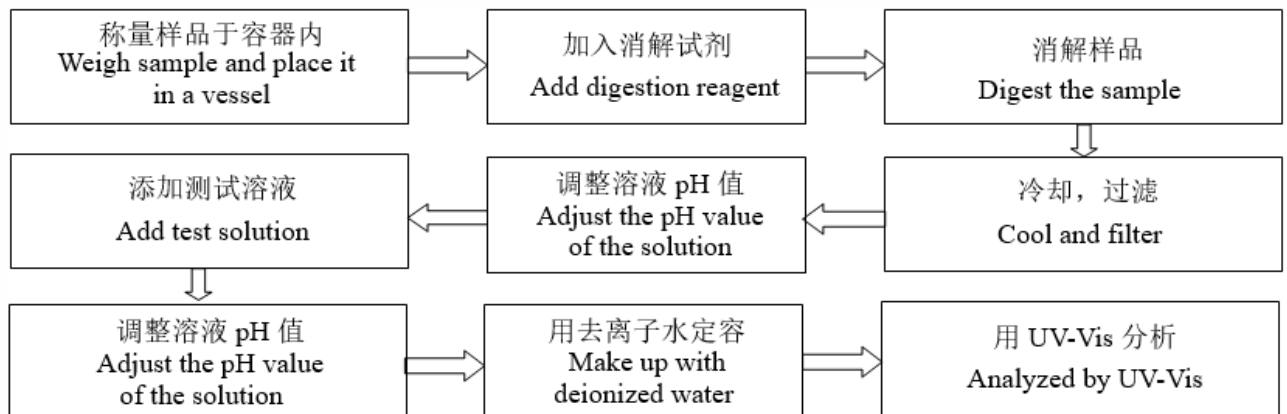
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2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

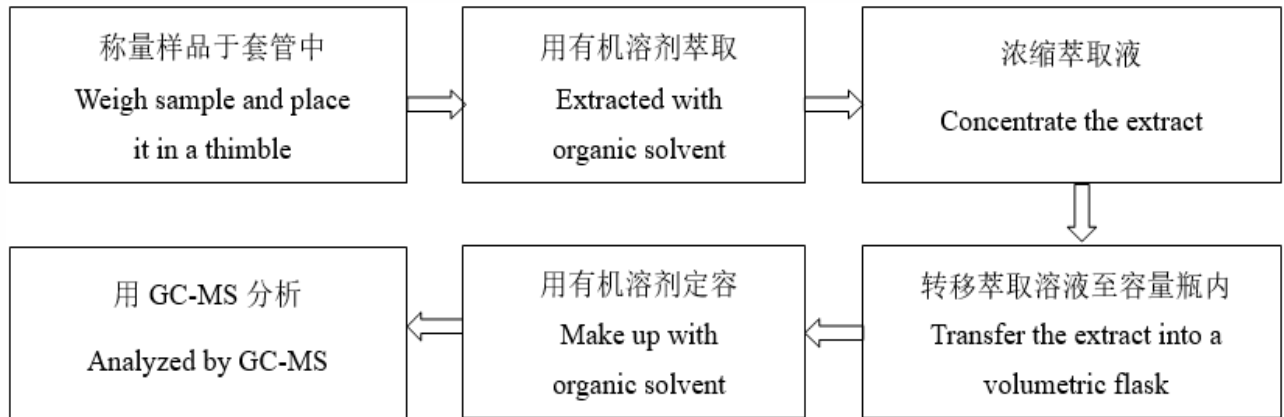


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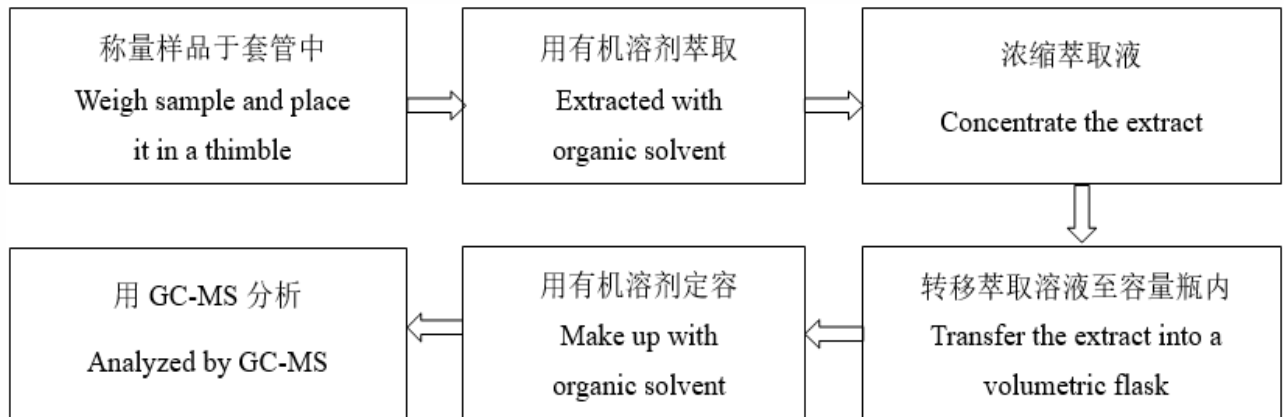
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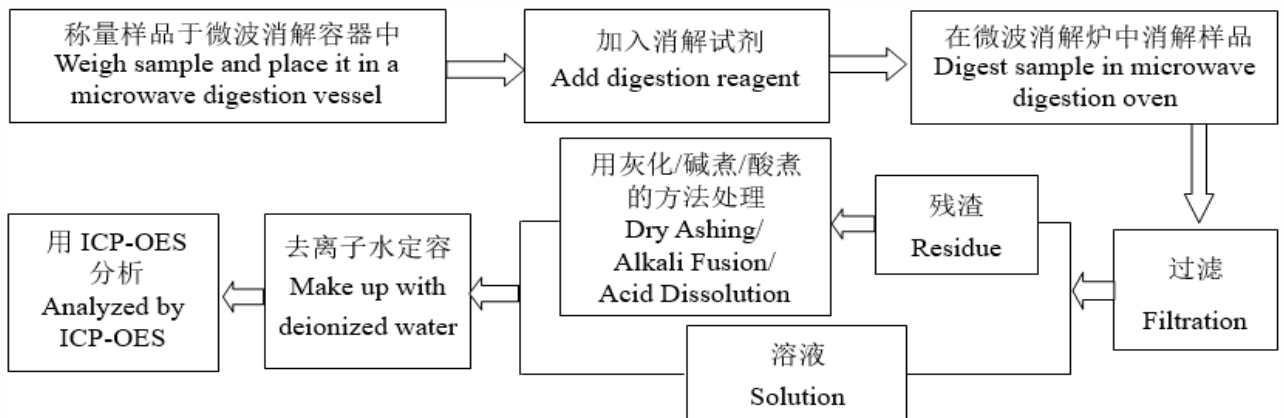
4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



6. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 锡 Tin(Sn)

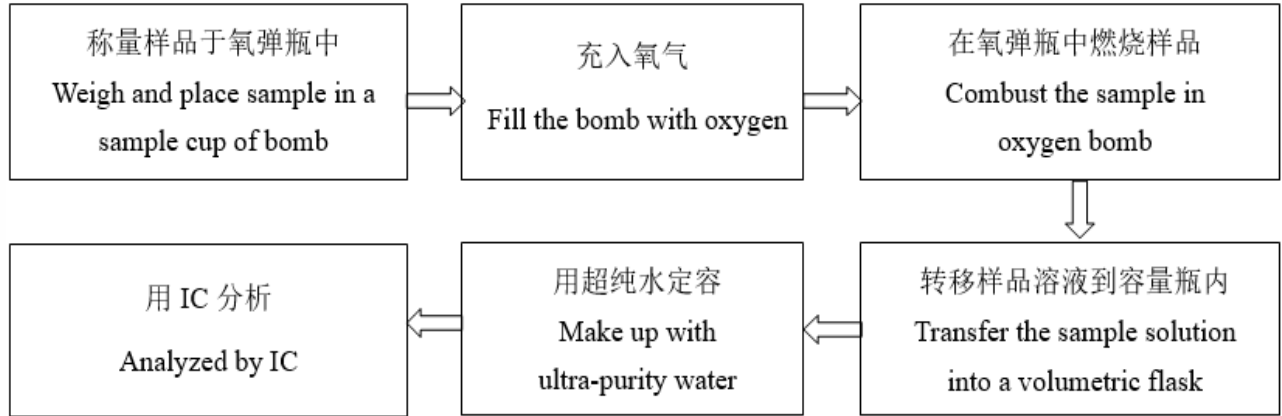


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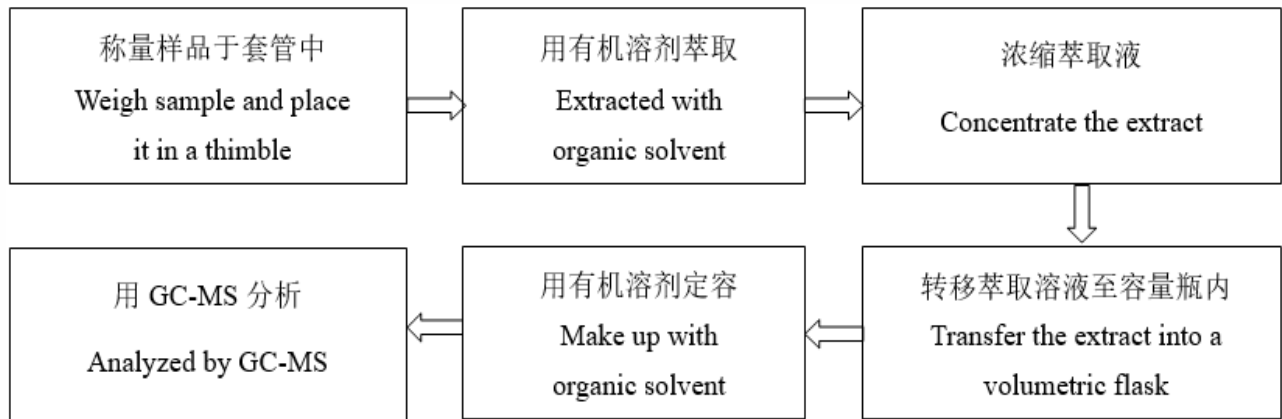
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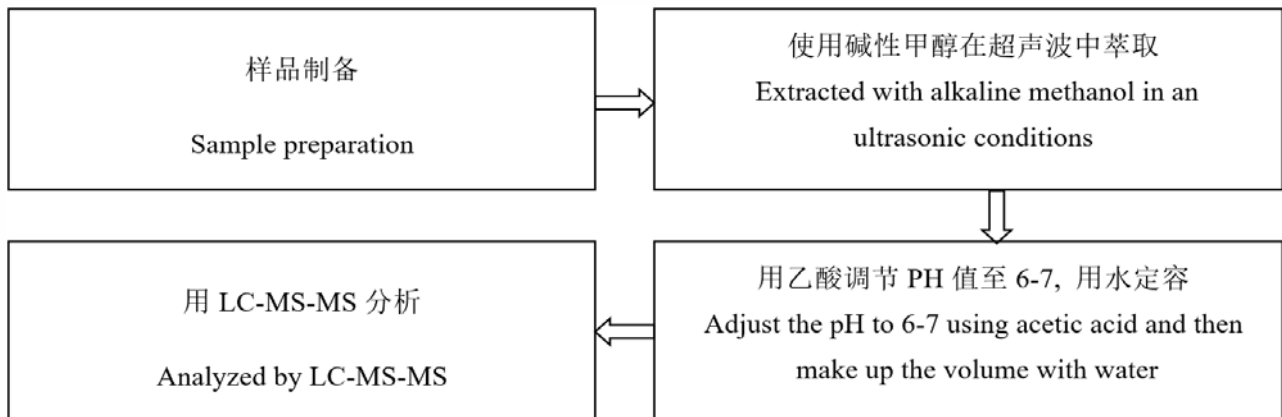
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 六溴环十二烷 Hexabromocyclododecane (HBCDD)



9. 全氟辛酸 (PFOA) Perfluorooctanoic Acid (PFOA), 全氟辛酸磺酸 (PFOS) Perfluorooctane Sulfonates (PFOS)

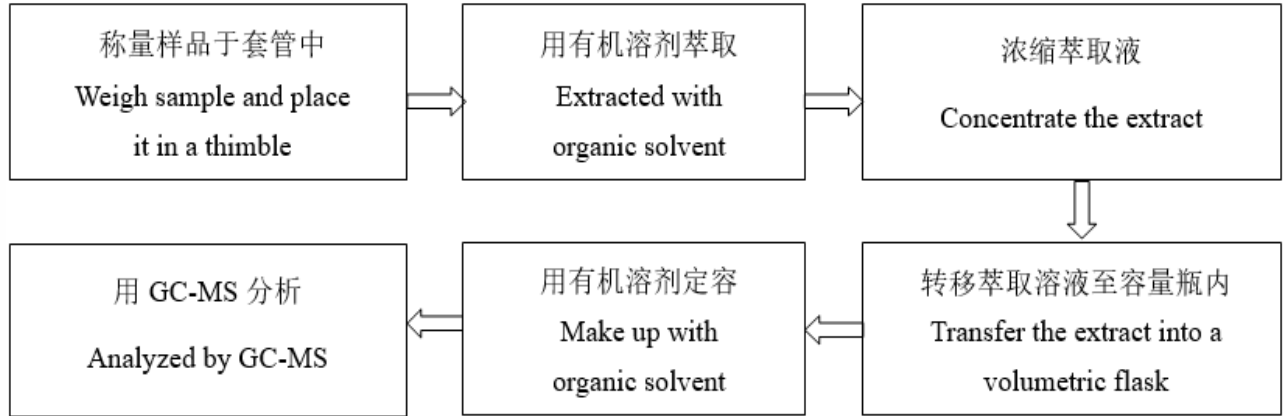


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10. 邻苯二甲酸酯 Phthalates



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检测结果 4 Test Result(s) 4

客户要求 Client's requirement

▼ 全氟己酸(PFHxA)及其盐和相关物质 Perfluorohexanoic acid (PFHxA) and its salts & related substances*¹

测试方法: EN 17681-1:2025; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2025; Test Equipment: LC-MS-MS & GC-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		001	
PFHxA 及其盐 PFHxA and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts	-	N.D.	--
6:2 FTS 及其盐 6:2 FTS and its salts*	-	N.D.	0.010
1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	N.D.	0.100
1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6	N.D.	0.200
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	N.D.	0.200
2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	N.D.	0.010
5:3 FTCA 及其盐 5:3 FTCA and its salts*	-	N.D.	0.010
三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	N.D.	0.200
全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	N.D.	0.200
3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	N.D.	0.200
甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	N.D.	0.200
三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	N.D.	0.200
1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	N.D.	0.200
1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	N.D.	0.200
乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	N.D.	0.200
1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	N.D.	0.200
1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	N.D.	0.200
N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIeTA)	852527-50-5	N.D.	0.200

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		001	
三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	N.D.	0.200
2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 (5:1 FTOH)	423-46-1	N.D.	0.200
3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	N.D.	0.200
1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	N.D.	0.200
全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7	N.D.	0.200
2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9	N.D.	0.200
4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8	N.D.	0.200
1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1	N.D.	0.200
三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1	N.D.	0.200
1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6	N.D.	0.200
4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苯醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0	N.D.	0.200
N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3	N.D.	0.010
多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7	N.D.	0.010
2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	N.D.	0.010

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		001	
Cheminox FHP 2OH(PFHEPA)及其盐 Cheminox FHP 2OH(PFHEPA) and its salts*	-	N.D.	0.010
6:2monoPAPs 及其盐 6:2monoPAPs and its salts*	-	N.D.	0.010
反式-1,2-双(全氟己基)乙烯 trans-1,2- Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)	51249-67-3	N.D.	0.200
1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6	N.D.	0.200
1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8	N.D.	0.200
全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5	N.D.	0.200
1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0	N.D.	0.200
1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4	N.D.	0.200
全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1	N.D.	0.200
6:6 PFPi 及其盐 6:6 PFPi and its salts*	-	N.D.	0.010
6:2diPAPS 及其盐 6:2diPAPS and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances	-	N.D.	--

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- * = PFHxA 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFHxA and its salts & related substances

PFHxA 及其盐和相关物质清单 List of PFHxA and its salts & related substances

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts			
1	PFHxA 及其盐 PFHxA and its salts	全氟己酸 Perfluorohexanoic acid (PFHxA)	307-24-4
2		全氟己酸钠 Sodium undecafluorohexanoate (PFHxA-Na)	2923-26-4
3		全氟己酸钾 Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K)	3109-94-2
4		全氟己酸锂 Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
5		全氟己酸银 Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
6		全氟己酸铵 Ammonium perfluorohexanoate (PFHxA-NH ₄)	21615-47-4
7		全氟己酰氟 Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
8		全氟己酰氯 Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5
9		全氟己酸哌嗪(2:1) Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) (PFHxA-C ₄ H ₁₀ N ₂)	423-47-2
10		全氟己酸己胺 Undecafluorohexanoic acid-hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4
11		全氟己酸苯基哌嗪 1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C ₁₀ H ₁₄ N ₂)	985-60-4

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12		全氟己酸盐 Perfluorohexanoate (anion) (PFHxA (anion))	92612-52-7	
13		全氟己酸酐 Perfluorohexanoic anhydride (PFHxAA)	308-13-4	
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances				
14	6:2 FTS 及其盐 6:2 FTS and its salts	1H,1H,2H,2H-全氟辛磺酸 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (6:2 FTS)	27619-97-2	
15		1H,1H,2H,2H-全氟辛磺酸钠 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid sodium salt (6:2 FTS-Na)	27619-94-9	
16		1H,1H,2H,2H-全氟辛磺酸钾 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid potassium salt (6:2 FTS-K)	59587-38-1	
17		1H,1H,2H,2H-全氟辛磺酸铵 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid ammonium salt (6:2 FTS-NH ₄)	59587-39-2	
18		1-辛烷磺酸,3,3,4,4,5,5,6,6,7,7,8,8-三氟-钡盐(2:1) 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8-tridecafluoro-,barium salt (2:1) (6:2 FTS-Ba ²⁺)	1807944-82-6	
19		1H,1H,2H,2H-全氟辛磺酸盐 2-(Perfluorohexyl)ethane-1-sulfonate (6:2 FTS (anion))	425670-75-3	
20		1H,1H,2H,2H-全氟辛磺酰氯 2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	
21		--	1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
22		--	1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6
23		--	1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8
24	--	2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	
25	5:3 FTCA 及其盐 5:3 FTCA and its salts	3-全氟戊基丙酸 3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	
26		3-全氟戊基丙酸盐 2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	
27	--	三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	
28	--	全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	
29	--	3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	
30	--	甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	
31	--	三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	
32	--	1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	
33	--	1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	
34	--	乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	
35	--	1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	
36	--	1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	
37	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIEtA)	852527-50-5	
38	--	三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	
39	--	2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	
40	--	3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	
41	--	1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	

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42	--	全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7
43	--	2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4
44	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9
45	--	4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3
46	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8
47	--	1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1
48	--	三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2
49	--	3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1
50	--	1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6
51	--	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苄醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0
52	--	N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyl dimethyl-3-[[3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3
53	--	多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7
54	--	2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4
55	Cheminox FHP 2OH(PFHEPA) 及其盐	全氟己基乙基膦酸 Perfluorohexyl ethylphosphonic acid (Cheminox FHP 2OH(PFHEPA))	252237-40-4
56	Cheminox FHP 2OH(PFHEPA) and its salts	全氟己基乙基膦酸钠 Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6
57		单[2-(全氟己基)乙基]磷酸酯 1-Octanol,3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,1-(dihydrogen phosphate) (6:2monoPAPs)	57678-01-0
58		6:2 磷酸氟调聚物单酯钠盐 Sodium 1H,1H,2H,2H-Perfluorooctylphosphate (6:2monoPAPs-Na)	144965-22-0
59	6:2monoPAPs 及其盐	6:2 磷酸氟调聚物单酯钾盐 Monopotassium monoperfluorohexyl ethylphosphate (6:2monoPAPs-K)	150033-28-6
60	6:2monoPAPs and its salts	6:2 磷酸氟调聚物单酯铵盐 Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate (6:2monoPAPs-NH ₄)	2353-52-8
61		6:2 磷酸氟调聚物单酯单铵盐 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt (6:2monoPAPs-NH ₄ (-))	92401-44-0
62		6:2 磷酸氟调聚物单酯二铵盐 Diammonium 6:2 fluorotelomer phosphate monoester (6:2monoPAPs-NH ₄ NH ₄)	1000852-37-8
63	--	反式-1,2-双(全氟己基)乙烯 trans-1,2-Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)	51249-67-3
64	--	1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6
65	--	1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8
66	--	全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5

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67	--	1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0
68	--	1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4
69	--	全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1
70	6:6 PFPi 及其盐 6:6 PFPi and its salts	6:6 全氟次磷酸 Bis(tridecafluorohexyl)phosphinic acid (6:6 PFPi)	40143-77-9
71		6:6 全氟次磷酸钠 Sodium bis(perfluorohexyl)phosphinate (6:6 PFPi-Na)	70609-44-8
72		6:6 全氟次磷酸铈 Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7
73		6:6 全氟次磷酸铒 Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8
74	6:2diPAPS 及其盐 6:2diPAPS and its salts	双[2-(全氟己基)乙基]磷酸 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) hydrogen phosphate (6:2diPAPS)	57677-95-9
75		双[2-(全氟己基)乙基]磷酸钠盐 Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-Na)	407582-79-0
76		双[2-(全氟己基)乙基]磷酸铵盐 Ammonium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-NH ₄)	1764-95-0
77		双[2-(全氟己基)乙基]磷酸盐 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2diPAPS(Anion))	667465-18-1

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	001	铜色漆包线 Cupreous enamelled wire

注释 Note:

- “*!”表示该项目/方法不在 CNAS 认可范围内
indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** 报告结束 ***
*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

HBUEW 130/155/180

SBUEW 130/155/180

UEW 155/180

UEW/Y 155/180

QPN 155/180/200

FIW 155/180

FIW F/R

Hex 155/180

HBAIW 200/220

SEIW 180

SEIW/Y 180

EIW 180/200

PIW 240

AIW 220

EI/AIW 200/220

声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

2. 附录内容为 A2250621861101001E 报告的补充。

The Appendix Information is/are the supplement(s) for the Report A2250621861101001E.



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报告抬头公司名称 广东松田科技股份有限公司
Company Name GUANG DONG SUNTEK WIRE CO.,LTD
shown on Report
地 址 广东省台山市水步镇文华开发区 B 区 8 号
Address NO.8 ZONEB,WENHUA DEVELOPMENT ZONE,SHUIBU TOWN TAISHAN CITY
GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	漆包铜圆线
Sample Name	Enamelled Round Copper Wire
样品颜色	红色
Color	Red
样品接收日期	2025.08.25
Sample Received Date	Aug. 25, 2025
样品检测日期	2025.08.25-2025.09.01
Testing Period	Aug. 25, 2025 to Sep. 1, 2025

测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).

批 准

Approved by

郑晴涛

郑晴涛

技术经理 Technical Manager

日 期

Date

2025.09.01

No. R735792003

广东省深圳市宝安区新安街道兴东社区华测检测大楼

华测检测认证集团股份有限公司

Guangdong Suntek Wire Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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测试摘要 Executive Summary:

测试要求

TEST REQUEST

- 1) 欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863
RoHS Directive 2011/65/EU with amendment (EU) 2015/863
- 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs),
邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)
Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)),
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs),
Phthalates (DBP, BBP, DEHP, DIBP)
- 2) 根据客户要求, 对所提交样品中的砷(As), 铍(Be), 锑(Sb), 锡(Sn), 氟(F), 氯(Cl),
溴(Br), 碘(I), 六溴环十二烷(HBCDD), 全氟辛酸(PFOA), 全氟辛烷磺酸(PFOS),
邻苯二甲酸酯进行测试。
As specified by client, to test Arsenic(As), Beryllium(Be), Antimony(Sb), Tin(Sn),
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Hexabromocyclododecane
(HBCDD), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS),
Phthalates in the submitted sample(s).
- 3) 欧盟指令 2000/53/EC 即 ELV 指令
2000/53/EC is the End-of-Life Vehicle Directive (ELV)
- 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),
Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)
- 4) 客户要求
Client's requirement
- 全氟己酸(PFHxA)及其盐和相关物质
Perfluorohexanoic acid (PFHxA) and its salts & related substances

测试结果

CONCLUSION

符合
PASS

见结果页
See test result(s)

符合
PASS

见结果页
See test result(s)

*****详细结果, 请见下页*****

***** For further details, please refer to the following page(s) *****

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检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
砷 Arsenic(As)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
铍 Beryllium(Be)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锡 Tin(Sn)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
全氟辛酸 Perfluorooctanoic Acid(PFOA)*1	EN 17681-1:2025	LC-MS-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS) *1	EN 17681-1:2025	LC-MS-MS
邻苯二甲酸酯 Phthalates	参考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

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检测结果 1 Test Result(s) 1

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

检测结果 2 Test Result(s) 2

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
砷 Arsenic (As)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
铍 Beryllium (Be)	N.D.	2 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
锑 Antimony (Sb)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
锡 Tin (Sn)	N.D.	10 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
全氟辛酸 Perfluorooctanoic Acid (PFOA) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	30 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0, 68515-48-0	N.D.	50 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0, 68515-49-1	N.D.	50 mg/kg
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0*1	N.D.	30 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3*1	N.D.	50 mg/kg

检测结果 3 Test Result(s) 3

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	25 mg/kg	---
二溴联苯 Dibromobiphenyl	N.D.	25 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	25 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	25 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	25 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	25 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	25 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	25 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	25 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	25 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	25 mg/kg	---
二溴二苯醚 Dibromodiphenyl ether	N.D.	25 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	25 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	25 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	25 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	25 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	25 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	25 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	25 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	25 mg/kg	

备注: 对于检测铅, 镉, 汞, 砷, 铍, 锑, 锡之样品已消解完全。
 -N.D. = 未检出 (小于方法检出限)
 -mg/kg = ppm = 百万分之一
 -1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Tin.
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million
 -1000 mg/kg = 0.1%

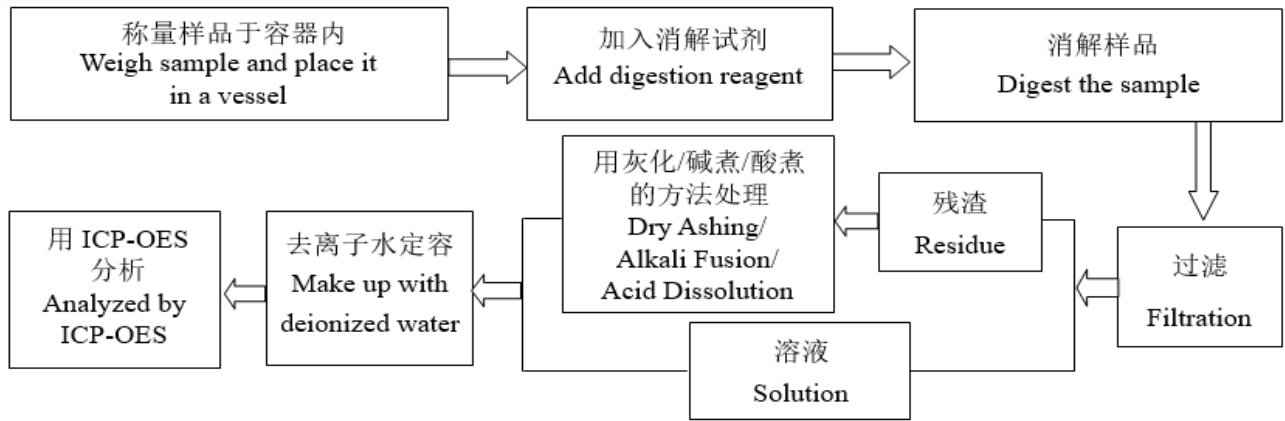
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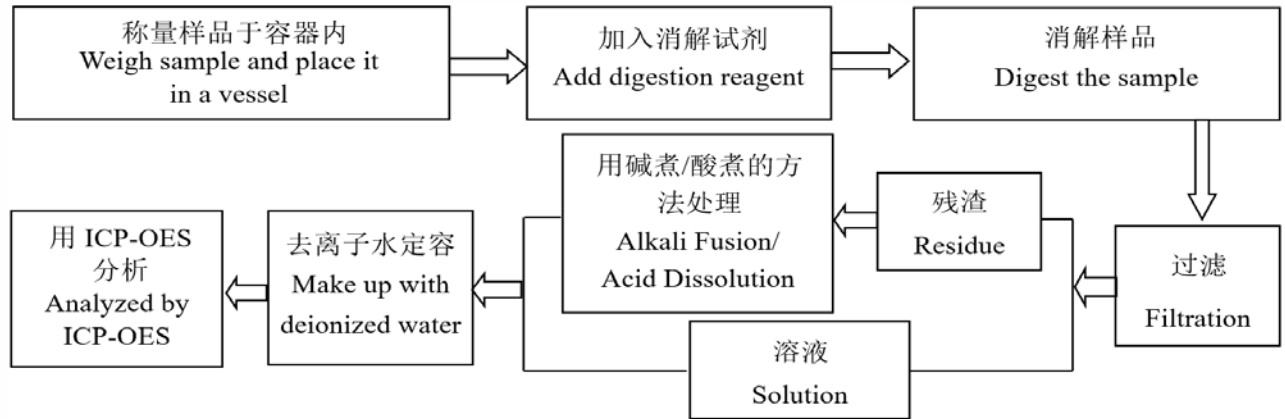
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检测流程 Test Process

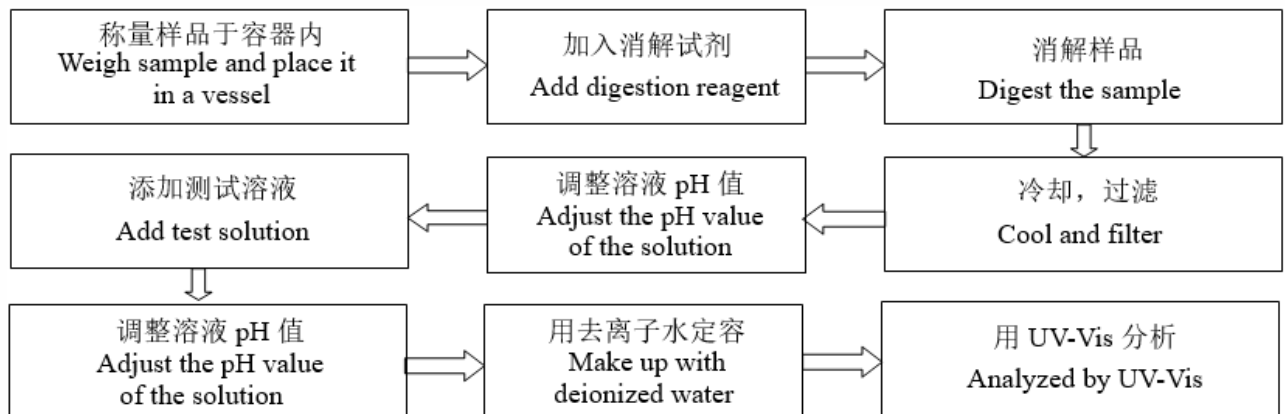
1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)



2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

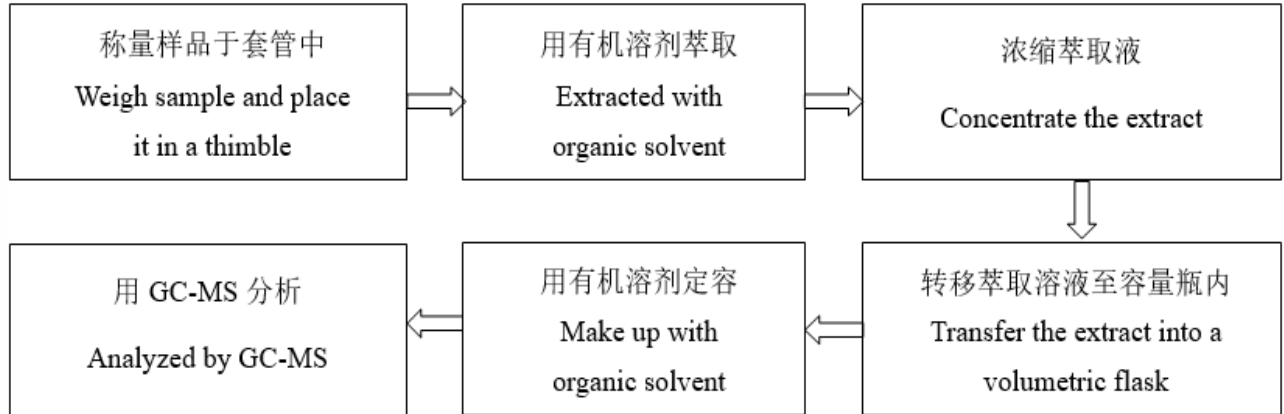


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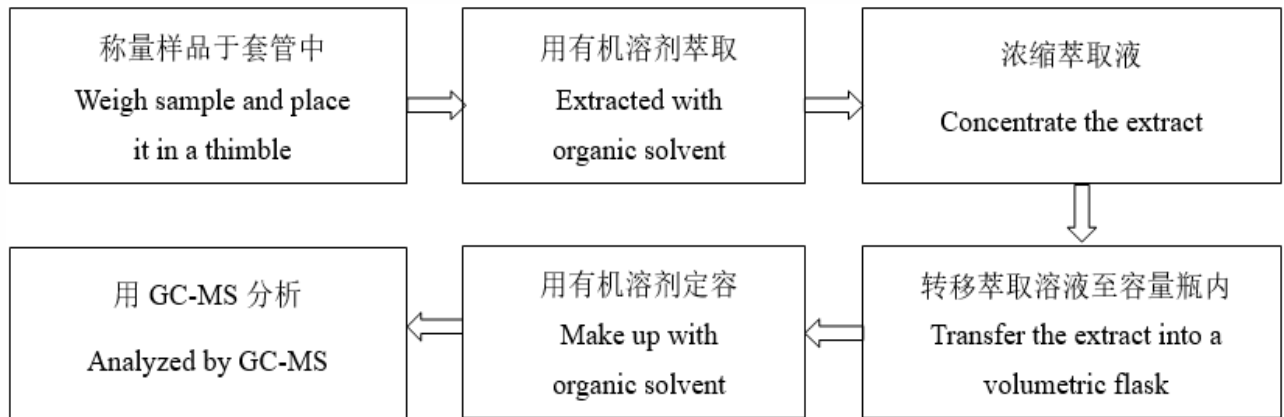
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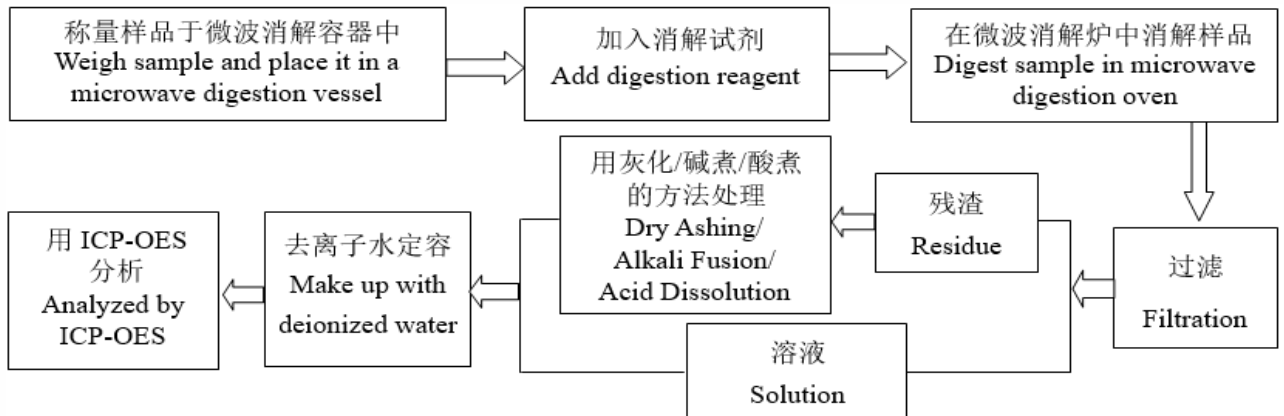
4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



6. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 锡 Tin(Sn)

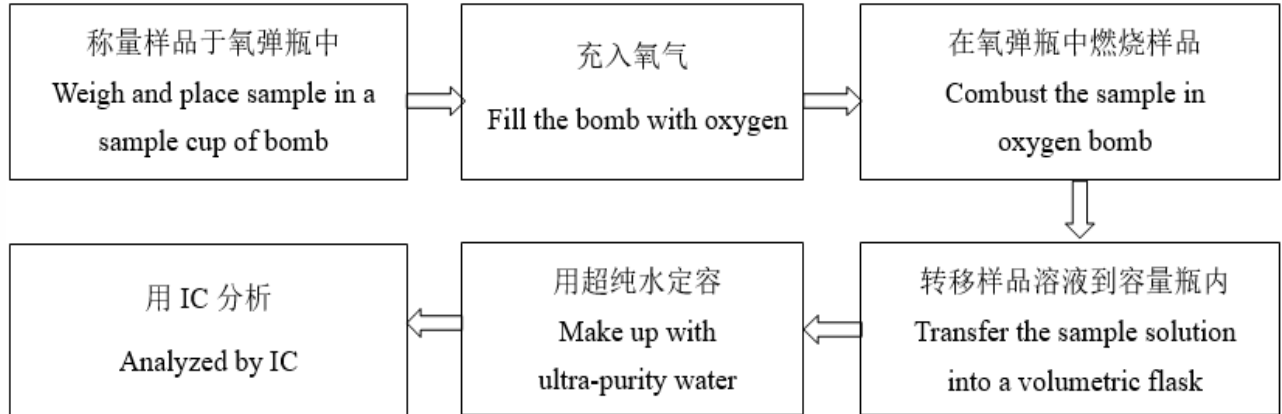


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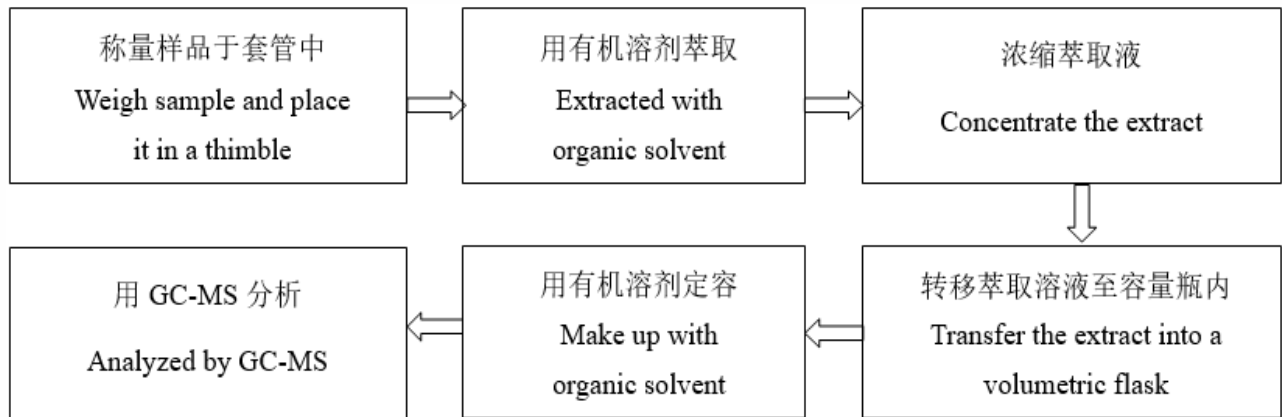
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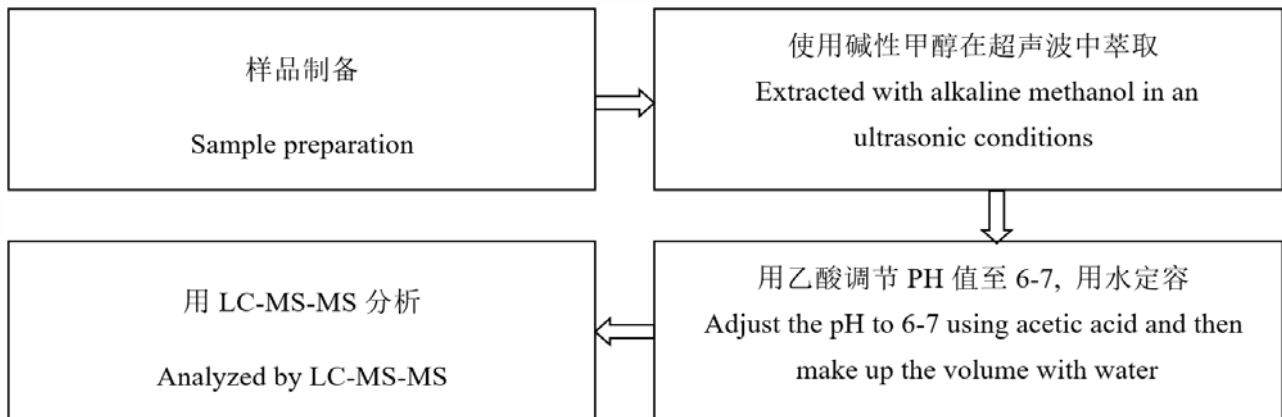
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 六溴环十二烷 Hexabromocyclododecane (HBCDD)



9. 全氟辛酸 (PFOA) Perfluorooctanoic Acid (PFOA), 全氟辛酸磺酸 (PFOS) Perfluorooctane Sulfonates (PFOS)

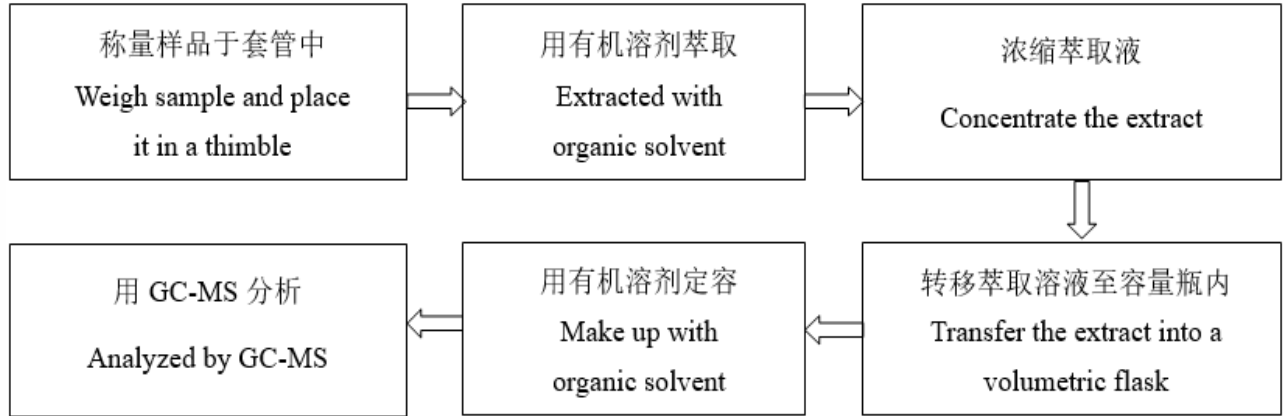


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10. 邻苯二甲酸酯 Phthalates



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检测结果 4 Test Result(s) 4

客户要求 Client's requirement

▼ 全氟己酸(PFHxA)及其盐和相关物质 Perfluorohexanoic acid (PFHxA) and its salts & related substances*1

测试方法: EN 17681-1:2025; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2025; Test Equipment: LC-MS-MS & GC-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		002	
PFHxA 及其盐 PFHxA and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts	-	N.D.	--
6:2 FTS 及其盐 6:2 FTS and its salts*	-	N.D.	0.010
1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	N.D.	0.100
1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6	N.D.	0.200
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	N.D.	0.200
2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	N.D.	0.010
5:3 FTCA 及其盐 5:3 FTCA and its salts*	-	N.D.	0.010
三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	N.D.	0.200
全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	N.D.	0.200
3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	N.D.	0.200
甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	N.D.	0.200
三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	N.D.	0.200
1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	N.D.	0.200
1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	N.D.	0.200
乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	N.D.	0.200
1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	N.D.	0.200
1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	N.D.	0.200
N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIeTA)	852527-50-5	N.D.	0.200

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		002	
三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	N.D.	0.200
2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	N.D.	0.200
3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	N.D.	0.200
1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	N.D.	0.200
全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7	N.D.	0.200
2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9	N.D.	0.200
4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8	N.D.	0.200
1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1	N.D.	0.200
三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1	N.D.	0.200
1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6	N.D.	0.200
4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苯醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0	N.D.	0.200
N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3	N.D.	0.010
多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7	N.D.	0.010
2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	N.D.	0.010

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		002	
Cheminox FHP 2OH(PFHEPA)及其盐 Cheminox FHP 2OH(PFHEPA) and its salts*	-	N.D.	0.010
6:2monoPAPs 及其盐 6:2monoPAPs and its salts*	-	N.D.	0.010
反式-1,2-双(全氟己基)乙烯 trans-1,2- Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)	51249-67-3	N.D.	0.200
1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6	N.D.	0.200
1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8	N.D.	0.200
全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5	N.D.	0.200
1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0	N.D.	0.200
1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4	N.D.	0.200
全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1	N.D.	0.200
6:6 PFPi 及其盐 6:6 PFPi and its salts*	-	N.D.	0.010
6:2diPAPS 及其盐 6:2diPAPS and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances	-	N.D.	--

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- * = PFHxA 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFHxA and its salts & related substances

PFHxA 及其盐和相关物质清单 List of PFHxA and its salts & related substances

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts			
1	PFHxA 及其盐 PFHxA and its salts	全氟己酸 Perfluorohexanoic acid (PFHxA)	307-24-4
2		全氟己酸钠 Sodium undecafluorohexanoate (PFHxA-Na)	2923-26-4
3		全氟己酸钾 Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K)	3109-94-2
4		全氟己酸锂 Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
5		全氟己酸银 Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
6		全氟己酸铵 Ammonium perfluorohexanoate (PFHxA-NH ₄)	21615-47-4
7		全氟己酰氟 Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
8		全氟己酰氯 Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5
9		全氟己酸哌嗪(2:1) Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) (PFHxA-C ₄ H ₁₀ N ₂)	423-47-2
10		全氟己酸己胺 Undecafluorohexanoic acid-hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4
11		全氟己酸苯基哌嗪 1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C ₁₀ H ₁₄ N ₂)	985-60-4

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12		全氟己酸盐 Perfluorohexanoate (anion) (PFHxA (anion))	92612-52-7	
13		全氟己酸酐 Perfluorohexanoic anhydride (PFHxAA)	308-13-4	
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances				
14	6:2 FTS 及其盐 6:2 FTS and its salts	1H,1H,2H,2H-全氟辛磺酸 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (6:2 FTS)	27619-97-2	
15		1H,1H,2H,2H-全氟辛磺酸钠 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid sodium salt (6:2 FTS-Na)	27619-94-9	
16		1H,1H,2H,2H-全氟辛磺酸钾 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid potassium salt (6:2 FTS-K)	59587-38-1	
17		1H,1H,2H,2H-全氟辛磺酸铵 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid ammonium salt (6:2 FTS-NH ₄)	59587-39-2	
18		1-辛烷磺酸,3,3,4,4,5,5,6,6,7,7,8,8-三氟-钡盐(2:1) 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,barium salt (2:1) (6:2 FTS-Ba ²⁺)	1807944-82-6	
19		1H,1H,2H,2H-全氟辛磺酸盐 2-(Perfluorohexyl)ethane-1-sulfonate (6:2 FTS (anion))	425670-75-3	
20		1H,1H,2H,2H-全氟辛磺酰氯 2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	
21		--	1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
22		--	1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6
23		--	1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8
24	--	2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	
25	5:3 FTCA 及其盐 5:3 FTCA and its salts	3-全氟戊基丙酸 3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	
26		3-全氟戊基丙酸盐 2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	
27	--	三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	
28	--	全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	
29	--	3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	
30	--	甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	
31	--	三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	
32	--	1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	
33	--	1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	
34	--	乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	
35	--	1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	
36	--	1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	
37	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIEtA)	852527-50-5	
38	--	三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	
39	--	2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	
40	--	3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	
41	--	1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	

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42	--	全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7
43	--	2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4
44	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9
45	--	4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3
46	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8
47	--	1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1
48	--	三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2
49	--	3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1
50	--	1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6
51	--	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苄醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0
52	--	N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyl dimethyl-3-[[3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3
53	--	多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7
54	--	2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4
55	Cheminox FHP 2OH(PFHEPA) 及其盐	全氟己基乙基膦酸 Perfluorohexyl ethylphosphonic acid (Cheminox FHP 2OH(PFHEPA))	252237-40-4
56	Cheminox FHP 2OH(PFHEPA) and its salts	全氟己基乙基膦酸钠 Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6
57	6:2monoPAPs 及其盐 6:2monoPAPs and its salts	单[2-(全氟己基)乙基]磷酸酯 1-Octanol,3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,1-(dihydrogen phosphate) (6:2monoPAPs)	57678-01-0
58		6:2 磷酸氟调聚物单酯钠盐 Sodium 1H,1H,2H,2H-Perfluorooctylphosphate (6:2monoPAPs-Na)	144965-22-0
59		6:2 磷酸氟调聚物单酯钾盐 Monopotassium monoperfluorohexyl ethylphosphate (6:2monoPAPs-K)	150033-28-6
60		6:2 磷酸氟调聚物单酯铵盐 Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate (6:2monoPAPs-NH ₄)	2353-52-8
61		6:2 磷酸氟调聚物单酯单铵盐 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt (6:2monoPAPs-NH ₄ (-))	92401-44-0
62		6:2 磷酸氟调聚物单酯二铵盐 Diammonium 6:2 fluorotelomer phosphate monoester (6:2monoPAPs-NH ₄ NH ₄)	1000852-37-8
63		--	反式-1,2-双(全氟己基)乙烯 trans-1,2-Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)
64	--	1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6
65	--	1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8
66	--	全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5

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67	--	1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0
68	--	1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4
69	--	全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1
70	6:6 PFPi 及其盐 6:6 PFPi and its salts	6:6 全氟次磷酸 Bis(tridecafluorohexyl)phosphinic acid (6:6 PFPi)	40143-77-9
71		6:6 全氟次磷酸钠 Sodium bis(perfluorohexyl)phosphinate (6:6 PFPi-Na)	70609-44-8
72		6:6 全氟次磷酸铋 Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7
73		6:6 全氟次磷酸铒 Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8
74	6:2diPAPS 及其盐 6:2diPAPS and its salts	双[2-(全氟己基)乙基]磷酸 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) hydrogen phosphate (6:2diPAPS)	57677-95-9
75		双[2-(全氟己基)乙基]磷酸钠盐 Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-Na)	407582-79-0
76		双[2-(全氟己基)乙基]磷酸铵盐 Ammonium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-NH ₄)	1764-95-0
77		双[2-(全氟己基)乙基]磷酸盐 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2diPAPS(Anion))	667465-18-1

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	002	红色漆包线 Red enamelled wire

注释 Note:

- “*”表示该项目/方法不在 CNAS 认可范围内
indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
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In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

HBUEW 130/155/180

SBUEW 130/155/180

UEW 155/180

UEW/Y 155/180

QPN 155/180/200

FIW 155/180

FIW F/R

Hex 155/180

SEIW 180

SEIW/Y 180

声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

2. 附录内容为 A2250621861101002E 报告的补充。

The Appendix Information is/are the supplement(s) for the Report A2250621861101002E.



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报告抬头公司名称 广东松田科技股份有限公司
Company Name GUANG DONG SUNTEK WIRE CO.,LTD
shown on Report
地 址 广东省台山市水步镇文华开发区 B 区 8 号
Address NO.8 ZONEB,WENHUA DEVELOPMENT ZONE,SHUIBU TOWN TAISHAN CITY
GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	漆包铜圆线
Sample Name	Enamelled Round Copper Wire
样品颜色	绿色
Color	Green
样品接收日期	2025.08.25
Sample Received Date	Aug. 25, 2025
样品检测日期	2025.08.25-2025.09.01
Testing Period	Aug. 25, 2025 to Sep. 1, 2025

测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).



郑晴涛

技术经理 Technical Manager

日 期
Date

2025.09.01

检验检测集团股份有限公司
Inspection & Testing Services
Centre Testing International Group Co.,Ltd.

No. R735792003
广东省深圳市宝安区新安街道兴东社区华测检测大楼

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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测试摘要 Executive Summary:

测试要求

TEST REQUEST

- 1) 欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863
RoHS Directive 2011/65/EU with amendment (EU) 2015/863
- 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs),
邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)
Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)),
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs),
Phthalates (DBP, BBP, DEHP, DIBP)
- 2) 根据客户要求, 对所提交样品中的砷(As), 铍(Be), 锑(Sb), 锡(Sn), 氟(F), 氯(Cl),
溴(Br), 碘(I), 六溴环十二烷(HBCDD), 全氟辛酸(PFOA), 全氟辛烷磺酸(PFOS),
邻苯二甲酸酯进行测试。
As specified by client, to test Arsenic(As), Beryllium(Be), Antimony(Sb), Tin(Sn),
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Hexabromocyclododecane
(HBCDD), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS),
Phthalates in the submitted sample(s).
- 3) 欧盟指令 2000/53/EC 即 ELV 指令
2000/53/EC is the End-of-Life Vehicle Directive (ELV)
- 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),
Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)
- 4) 客户要求
Client's requirement
- 全氟己酸(PFHxA)及其盐和相关物质
Perfluorohexanoic acid (PFHxA) and its salts & related substances

测试结果

CONCLUSION

符合
PASS

见结果页
See test result(s)

符合
PASS

见结果页
See test result(s)

*****详细结果, 请见下页*****

***** For further details, please refer to the following page(s) *****

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检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
砷 Arsenic(As)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
铍 Beryllium(Be)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锡 Tin(Sn)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
全氟辛酸 Perfluorooctanoic Acid(PFOA)*1	EN 17681-1:2025	LC-MS-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS) *1	EN 17681-1:2025	LC-MS-MS
邻苯二甲酸酯 Phthalates	参考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

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检测结果 1 Test Result(s) 1

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

检测结果 2 Test Result(s) 2

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
砷 Arsenic (As)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
铍 Beryllium (Be)	N.D.	2 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
锑 Antimony (Sb)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
锡 Tin (Sn)	N.D.	10 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
全氟辛酸 Perfluorooctanoic Acid (PFOA) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	30 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0, 68515-48-0	N.D.	50 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0, 68515-49-1	N.D.	50 mg/kg
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPEN) CAS#:131-18-0*1	N.D.	30 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3*1	N.D.	50 mg/kg

检测结果 3 Test Result(s) 3

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	25 mg/kg	---
二溴联苯 Dibromobiphenyl	N.D.	25 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	25 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	25 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	25 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	25 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	25 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	25 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	25 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	25 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	003		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	25 mg/kg	---
二溴二苯醚 Dibromodiphenyl ether	N.D.	25 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	25 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	25 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	25 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	25 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	25 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	25 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	25 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	25 mg/kg	

备注: 对于检测铅, 镉, 汞, 砷, 铍, 锑, 锡之样品已消解完全。
 -N.D. = 未检出 (小于方法检出限)
 -mg/kg = ppm = 百万分之一
 -1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Tin.
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million
 -1000 mg/kg = 0.1%

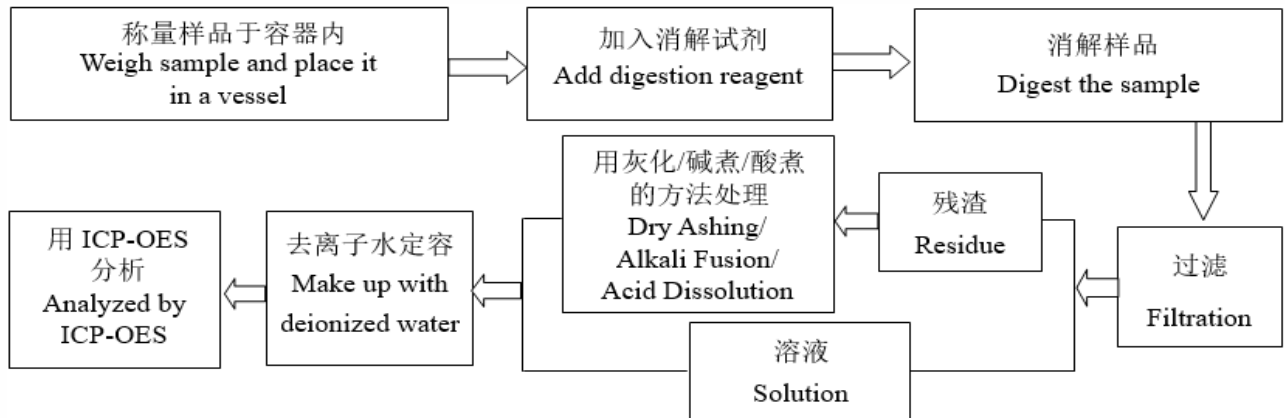
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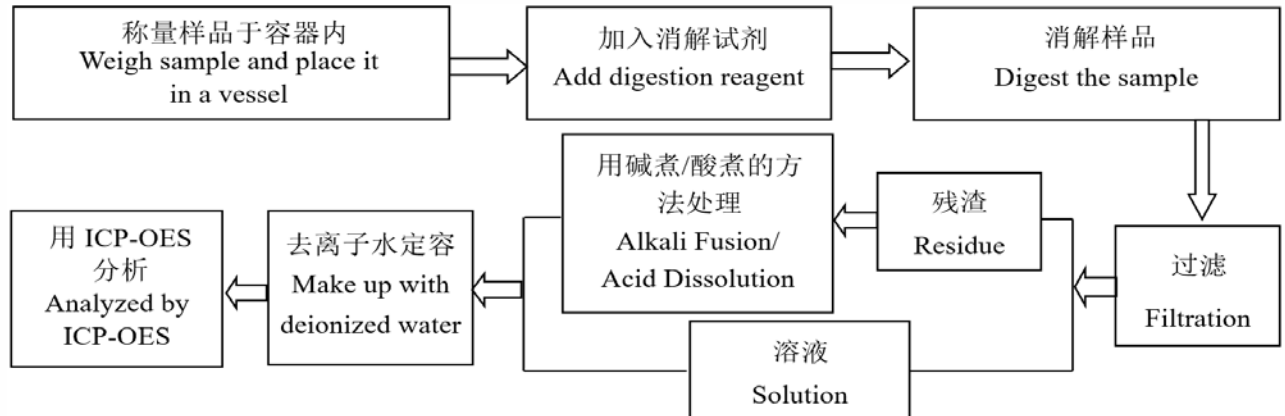
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检测流程 Test Process

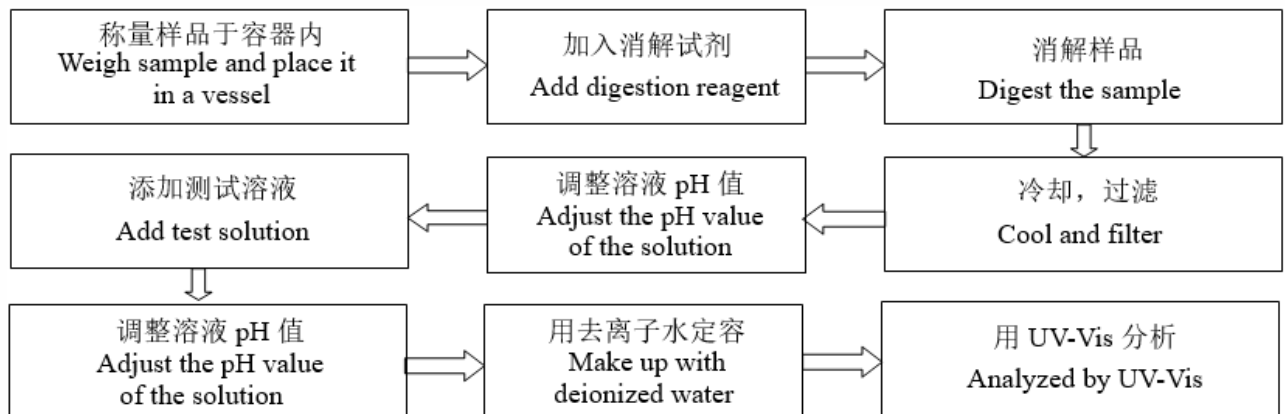
1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)



2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

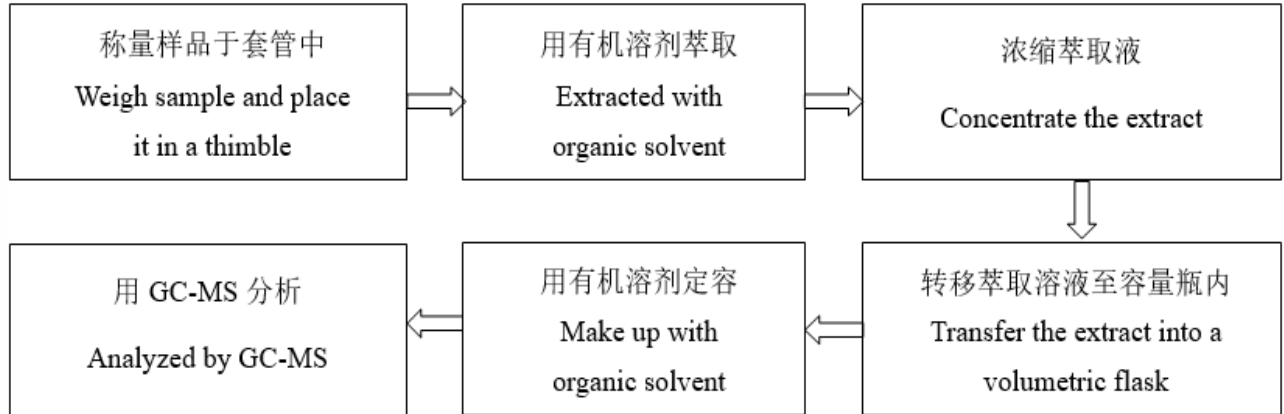


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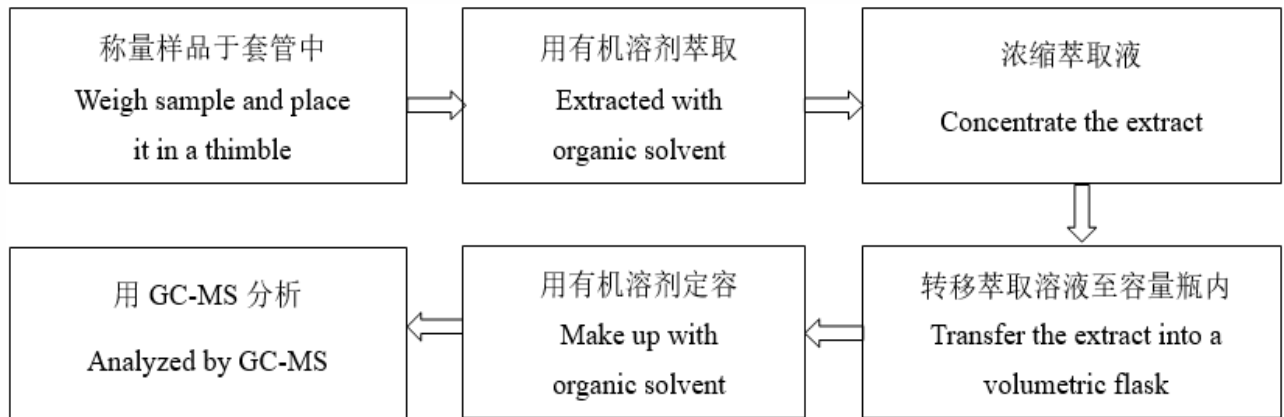
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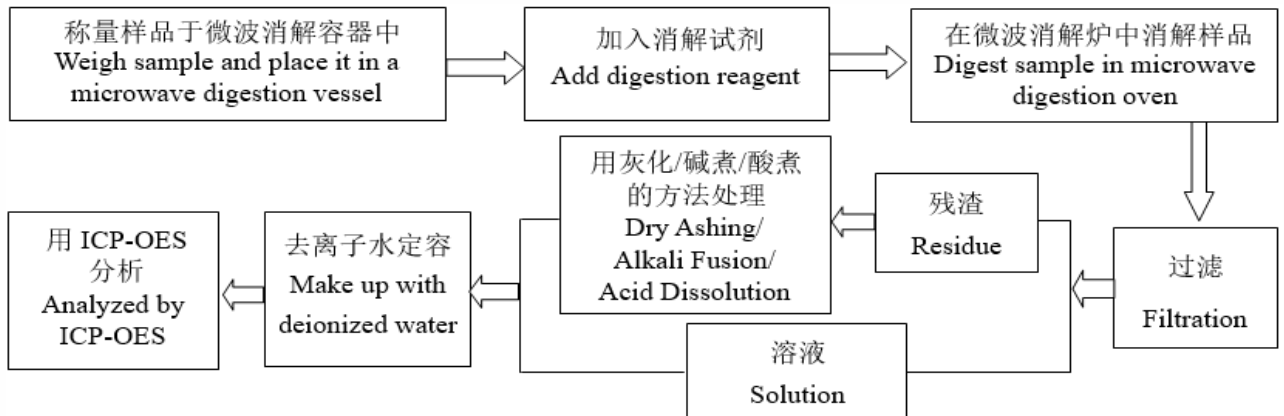
4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



6. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 锡 Tin(Sn)

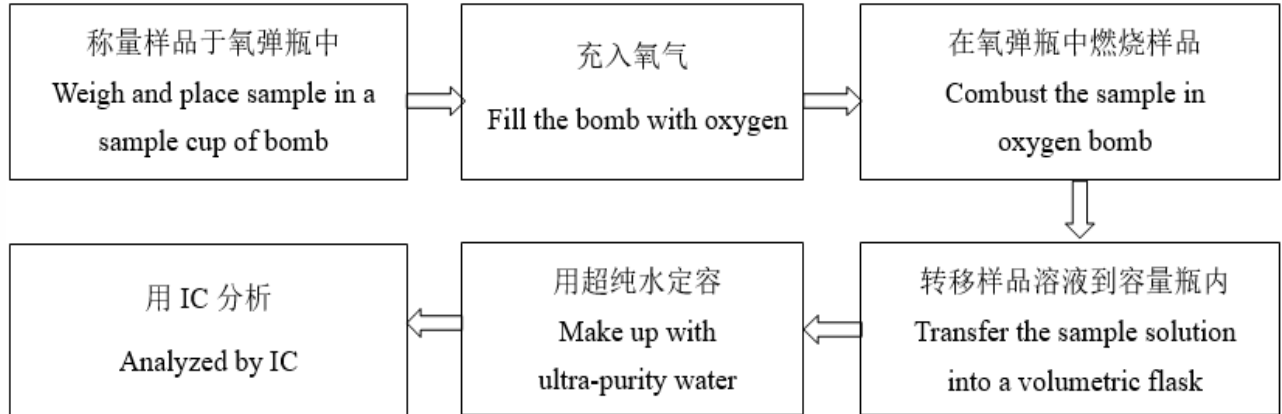


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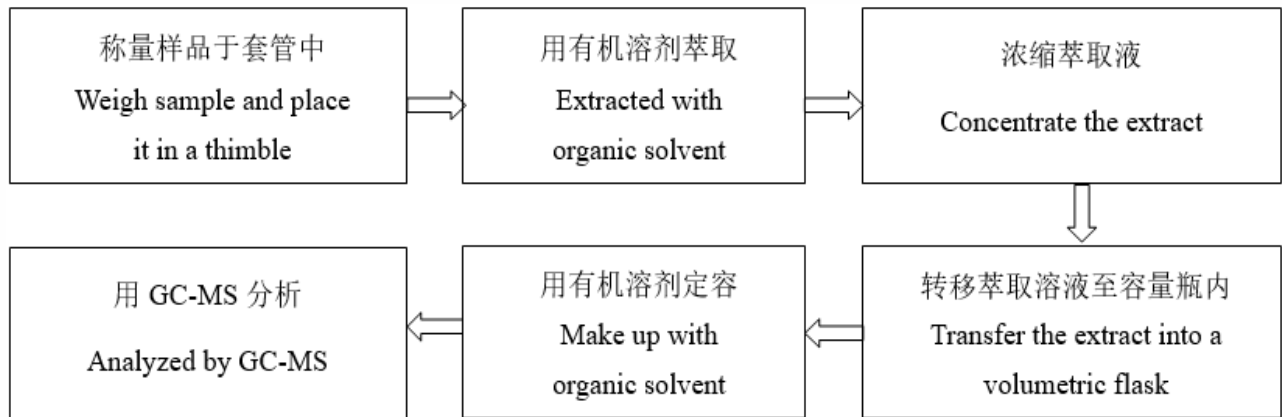
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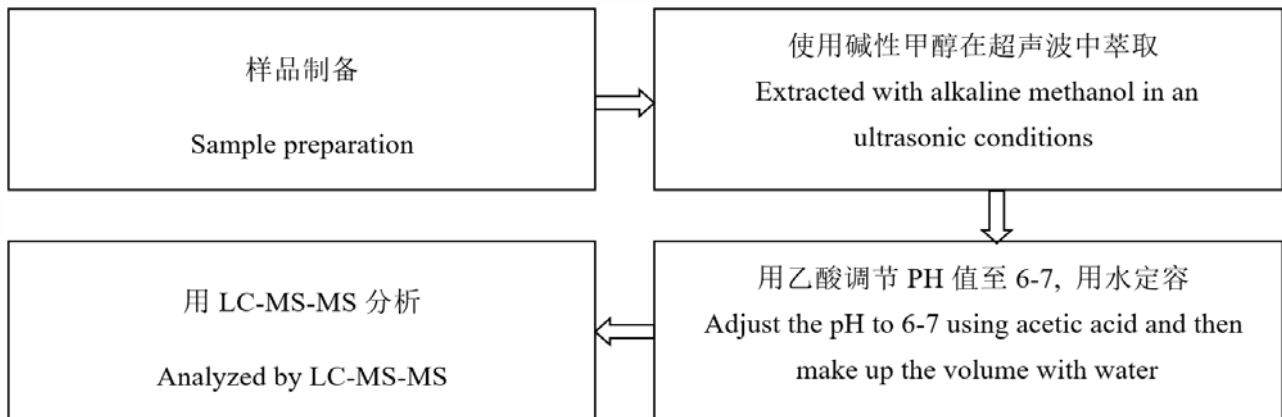
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 六溴环十二烷 Hexabromocyclododecane (HBCDD)



9. 全氟辛酸 (PFOA) Perfluorooctanoic Acid (PFOA), 全氟辛酸磺酸 (PFOS) Perfluorooctane Sulfonates (PFOS)

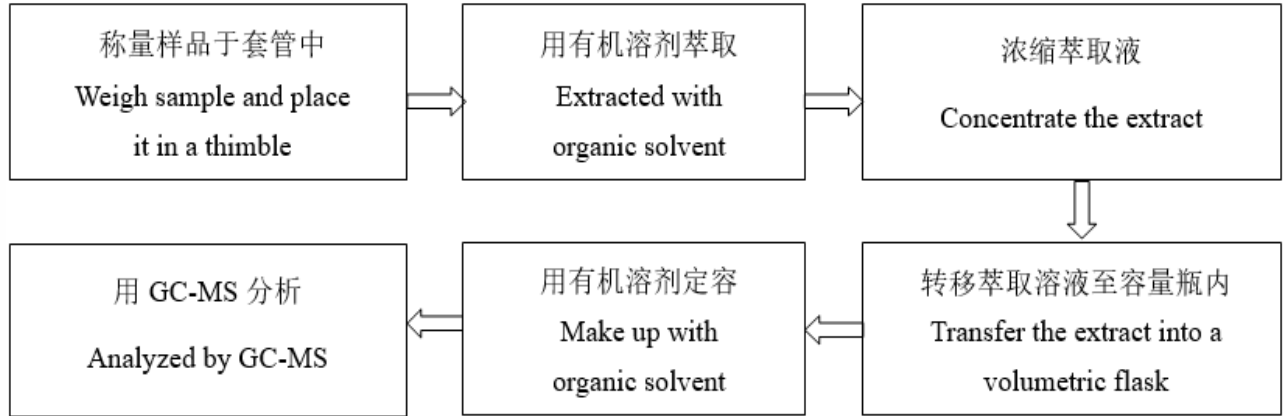


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10. 邻苯二甲酸酯 Phthalates



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检测结果 4 Test Result(s) 4

客户要求 Client's requirement

▼ 全氟己酸(PFHxA)及其盐和相关物质 Perfluorohexanoic acid (PFHxA) and its salts & related substances*¹

测试方法: EN 17681-1:2025; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2025; Test Equipment: LC-MS-MS & GC-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		003	
PFHxA 及其盐 PFHxA and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts	-	N.D.	--
6:2 FTS 及其盐 6:2 FTS and its salts*	-	N.D.	0.010
1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	N.D.	0.100
1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6	N.D.	0.200
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	N.D.	0.200
2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	N.D.	0.010
5:3 FTCA 及其盐 5:3 FTCA and its salts*	-	N.D.	0.010
三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	N.D.	0.200
全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	N.D.	0.200
3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	N.D.	0.200
甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	N.D.	0.200
三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	N.D.	0.200
1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	N.D.	0.200
1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	N.D.	0.200
乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	N.D.	0.200
1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	N.D.	0.200
1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	N.D.	0.200
N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIeTA)	852527-50-5	N.D.	0.200

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		003	
三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	N.D.	0.200
2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	N.D.	0.200
3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	N.D.	0.200
1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	N.D.	0.200
全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7	N.D.	0.200
2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9	N.D.	0.200
4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8	N.D.	0.200
1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1	N.D.	0.200
三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1	N.D.	0.200
1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6	N.D.	0.200
4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苄醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0	N.D.	0.200
N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3	N.D.	0.010
多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7	N.D.	0.010
2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	N.D.	0.010

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		003	
Cheminox FHP 2OH(PFHEPA)及其盐 Cheminox FHP 2OH(PFHEPA) and its salts*	-	N.D.	0.010
6:2monoPAPs 及其盐 6:2monoPAPs and its salts*	-	N.D.	0.010
反式-1,2-双(全氟己基)乙烯 trans-1,2-Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)	51249-67-3	N.D.	0.200
1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6	N.D.	0.200
1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8	N.D.	0.200
全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5	N.D.	0.200
1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0	N.D.	0.200
1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4	N.D.	0.200
全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1	N.D.	0.200
6:6 PFPi 及其盐 6:6 PFPi and its salts*	-	N.D.	0.010
6:2diPAPS 及其盐 6:2diPAPS and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances	-	N.D.	--

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- * = PFHxA 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFHxA and its salts & related substances

PFHxA 及其盐和相关物质清单 List of PFHxA and its salts & related substances

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts			
1	PFHxA 及其盐 PFHxA and its salts	全氟己酸 Perfluorohexanoic acid (PFHxA)	307-24-4
2		全氟己酸钠 Sodium undecafluorohexanoate (PFHxA-Na)	2923-26-4
3		全氟己酸钾 Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K)	3109-94-2
4		全氟己酸锂 Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
5		全氟己酸银 Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
6		全氟己酸铵 Ammonium perfluorohexanoate (PFHxA-NH ₄)	21615-47-4
7		全氟己酰氟 Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
8		全氟己酰氯 Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5
9		全氟己酸哌嗪(2:1) Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) (PFHxA-C ₄ H ₁₀ N ₂)	423-47-2
10		全氟己酸己胺 Undecafluorohexanoic acid-hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4
11		全氟己酸苯基哌嗪 1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C ₁₀ H ₁₄ N ₂)	985-60-4

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12		全氟己酸盐 Perfluorohexanoate (anion) (PFHxA (anion))	92612-52-7	
13		全氟己酸酐 Perfluorohexanoic anhydride (PFHxAA)	308-13-4	
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances				
14	6:2 FTS 及其盐 6:2 FTS and its salts	1H,1H,2H,2H-全氟辛磺酸 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (6:2 FTS)	27619-97-2	
15		1H,1H,2H,2H-全氟辛磺酸钠 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid sodium salt (6:2 FTS-Na)	27619-94-9	
16		1H,1H,2H,2H-全氟辛磺酸钾 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid potassium salt (6:2 FTS-K)	59587-38-1	
17		1H,1H,2H,2H-全氟辛磺酸铵 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid ammonium salt (6:2 FTS-NH ₄)	59587-39-2	
18		1-辛烷磺酸,3,3,4,4,5,5,6,6,7,7,8,8-三氟-钡盐(2:1) 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8-tridecafluoro-,barium salt (2:1) (6:2 FTS-Ba ²⁺)	1807944-82-6	
19		1H,1H,2H,2H-全氟辛磺酸盐 2-(Perfluorohexyl)ethane-1-sulfonate (6:2 FTS (anion))	425670-75-3	
20		1H,1H,2H,2H-全氟辛磺酰氯 2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	
21		--	1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
22		--	1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6
23		--	1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8
24	--	2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	
25	5:3 FTCA 及其盐 5:3 FTCA and its salts	3-全氟戊基丙酸 3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	
26		3-全氟戊基丙酸盐 2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	
27	--	三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	
28	--	全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	
29	--	3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	
30	--	甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	
31	--	三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	
32	--	1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	
33	--	1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	
34	--	乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	
35	--	1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	
36	--	1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIO)	2043-57-4	
37	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIEtA)	852527-50-5	
38	--	三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	
39	--	2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	
40	--	3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	
41	--	1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	

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42	--	全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7
43	--	2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4
44	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9
45	--	4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3
46	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8
47	--	1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1
48	--	三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2
49	--	3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1
50	--	1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6
51	--	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苄醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0
52	--	N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyl dimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3
53	--	多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7
54	--	2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4
55	Cheminox FHP 2OH(PFHEPA) 及其盐	全氟己基乙基膦酸 Perfluorohexyl ethylphosphonic acid (Cheminox FHP 2OH(PFHEPA))	252237-40-4
56	Cheminox FHP 2OH(PFHEPA) and its salts	全氟己基乙基膦酸钠 Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6
57	6:2monoPAPs 及其盐 6:2monoPAPs and its salts	单[2-(全氟己基)乙基]磷酸酯 1-Octanol,3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,1-(dihydrogen phosphate) (6:2monoPAPs)	57678-01-0
58		6:2 磷酸氟调聚物单酯钠盐 Sodium 1H,1H,2H,2H-Perfluorooctylphosphate (6:2monoPAPs-Na)	144965-22-0
59		6:2 磷酸氟调聚物单酯钾盐 Monopotassium monoperfluorohexyl ethylphosphate (6:2monoPAPs-K)	150033-28-6
60		6:2 磷酸氟调聚物单酯铵盐 Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate (6:2monoPAPs-NH ₄)	2353-52-8
61		6:2 磷酸氟调聚物单酯单铵盐 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt (6:2monoPAPs-NH ₄ (-))	92401-44-0
62		6:2 磷酸氟调聚物单酯二铵盐 Diammonium 6:2 fluorotelomer phosphate monoester (6:2monoPAPs-NH ₄ NH ₄)	1000852-37-8
63		--	反式-1,2-双(全氟己基)乙烯 trans-1,2-Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)
64	--	1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6
65	--	1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8
66	--	全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5

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67	--	1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0
68	--	1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4
69	--	全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1
70	6:6 PFPi 及其盐 6:6 PFPi and its salts	6:6 全氟次磷酸 Bis(tridecafluorohexyl)phosphinic acid (6:6 PFPi)	40143-77-9
71		6:6 全氟次磷酸钠 Sodium bis(perfluorohexyl)phosphinate (6:6 PFPi-Na)	70609-44-8
72		6:6 全氟次磷酸铈 Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7
73		6:6 全氟次磷酸铒 Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8
74	6:2diPAPS 及其盐 6:2diPAPS and its salts	双[2-(全氟己基)乙基]磷酸 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) hydrogen phosphate (6:2diPAPS)	57677-95-9
75		双[2-(全氟己基)乙基]磷酸钠盐 Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-Na)	407582-79-0
76		双[2-(全氟己基)乙基]磷酸铵盐 Ammonium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-NH ₄)	1764-95-0
77		双[2-(全氟己基)乙基]磷酸盐 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2diPAPS(Anion))	667465-18-1

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	003	绿色漆包线 Green enamelled wire

注释 Note:

- “*!”表示该项目/方法不在 CNAS 认可范围内
indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
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In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

UEW 155/180

UEW/Y 155/180

QPN 155/180/200

FIW 155/180

FIW F/R

Hex 155/180

声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

2. 附录内容为 A2250621861101003E 报告的补充。

The Appendix Information is/are the supplement(s) for the Report A2250621861101003E.



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报告抬头公司名称 广东松田科技股份有限公司
Company Name GUANG DONG SUNTEK WIRE CO.,LTD
shown on Report
地 址 广东省台山市水步镇文华开发区 B 区 8 号
Address NO.8 ZONEB,WENHUA DEVELOPMENT ZONE,SHUIBU TOWN TAISHAN CITY
GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	漆包铜圆线
Sample Name	Enamelled Round Copper Wire
样品颜色	蓝色
Color	Blue
样品接收日期	2025.08.25
Sample Received Date	Aug. 25, 2025
样品检测日期	2025.08.25-2025.09.01
Testing Period	Aug. 25, 2025 to Sep. 1, 2025

测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).

批 准

Approved by

郑晴涛

郑晴涛

技术经理 Technical Manager

日 期

Date

2025.09.01

No. R735792003

广东省深圳市宝安区新安街道兴东社区华测检测大楼

华测检测认证集团股份有限公司

Centre Testing International Group Co.,Ltd.

检验检测专用章

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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测试摘要 Executive Summary:

测试要求

TEST REQUEST

- 1) 欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863
RoHS Directive 2011/65/EU with amendment (EU) 2015/863
 - 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)
Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP)
- 2) 根据客户要求, 对所提交样品中的砷(As), 铍(Be), 锑(Sb), 锡(Sn), 氟(F), 氯(Cl), 溴(Br), 碘(I), 六溴环十二烷(HBCDD), 全氟辛酸(PFOA), 全氟辛烷磺酸(PFOS), 邻苯二甲酸酯进行测试。
As specified by client, to test Arsenic(As), Beryllium(Be), Antimony(Sb), Tin(Sn), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Hexabromocyclododecane (HBCDD), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS), Phthalates in the submitted sample(s).
- 3) 欧盟指令 2000/53/EC 即 ELV 指令
2000/53/EC is the End-of-Life Vehicle Directive (ELV)
 - 铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)
- 4) 客户要求
Client's requirement
 - 全氟己酸(PFHxA)及其盐和相关物质
Perfluorohexanoic acid (PFHxA) and its salts & related substances

测试结果

CONCLUSION

符合
PASS

见结果页
See test result(s)

符合
PASS

见结果页
See test result(s)

*****详细结果, 请见下页*****

***** For further details, please refer to the following page(s) *****

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检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
砷 Arsenic(As)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
铍 Beryllium(Be)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锡 Tin(Sn)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
全氟辛酸 Perfluorooctanoic Acid(PFOA)*1	EN 17681-1:2025	LC-MS-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS) *1	EN 17681-1:2025	LC-MS-MS
邻苯二甲酸酯 Phthalates	参考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

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检测结果 1 Test Result(s) 1

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

检测结果 2 Test Result(s) 2

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
砷 Arsenic (As)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
铍 Beryllium (Be)	N.D.	2 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
锑 Antimony (Sb)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
锡 Tin (Sn)	N.D.	10 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
全氟辛酸 Perfluorooctanoic Acid (PFOA) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS) *1	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	30 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0, 68515-48-0	N.D.	50 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0, 68515-49-1	N.D.	50 mg/kg
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0*1	N.D.	30 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3*1	N.D.	50 mg/kg

检测结果 3 Test Result(s) 3

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	25 mg/kg	---
二溴联苯 Dibromobiphenyl	N.D.	25 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	25 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	25 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	25 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	25 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	25 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	25 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	25 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	25 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	004		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	25 mg/kg	---
二溴二苯醚 Dibromodiphenyl ether	N.D.	25 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	25 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	25 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	25 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	25 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	25 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	25 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	25 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	25 mg/kg	

备注: 对于检测铅, 镉, 汞, 砷, 铍, 锑, 锡之样品已消解完全。
 -N.D. = 未检出 (小于方法检出限)
 -mg/kg = ppm = 百万分之一
 -1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Tin.
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million
 -1000 mg/kg = 0.1%

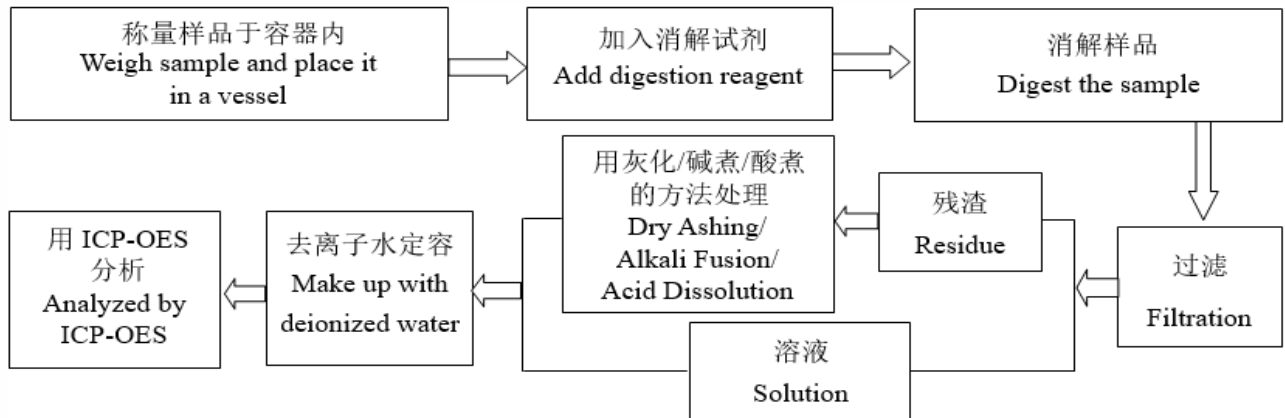
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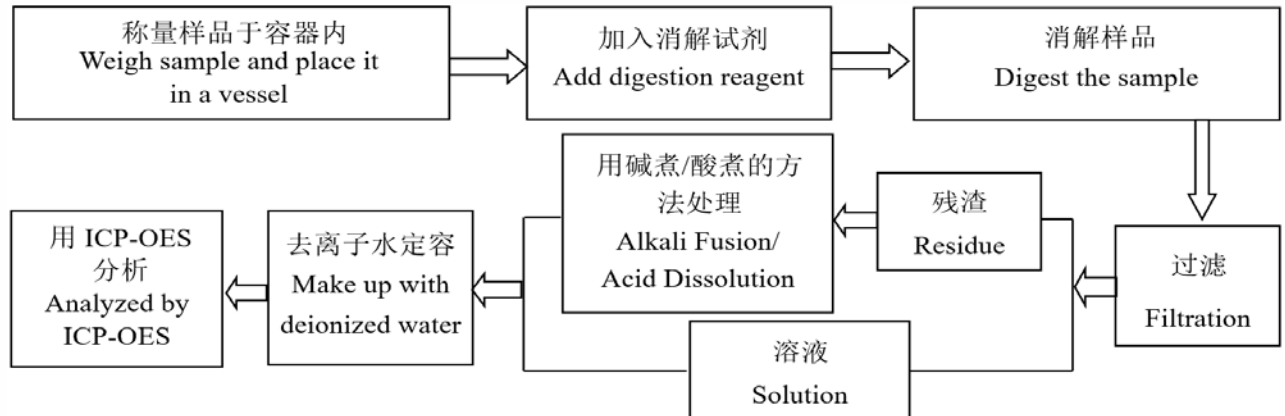
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检测流程 Test Process

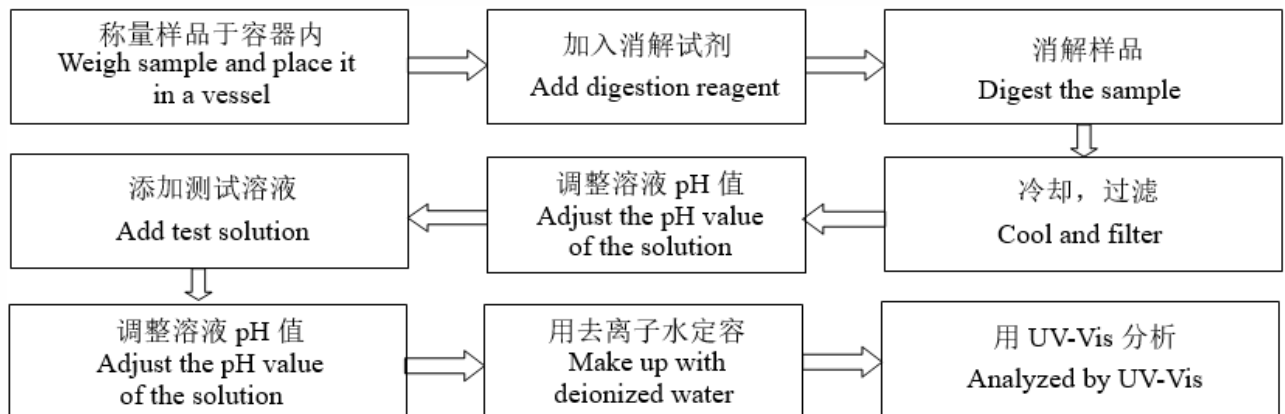
1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)



2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

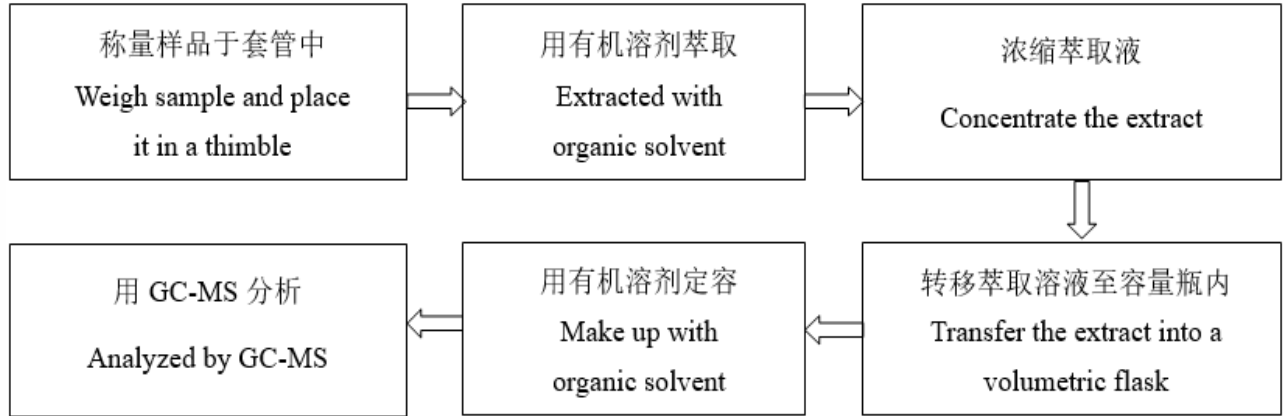


检测报告 Test Report

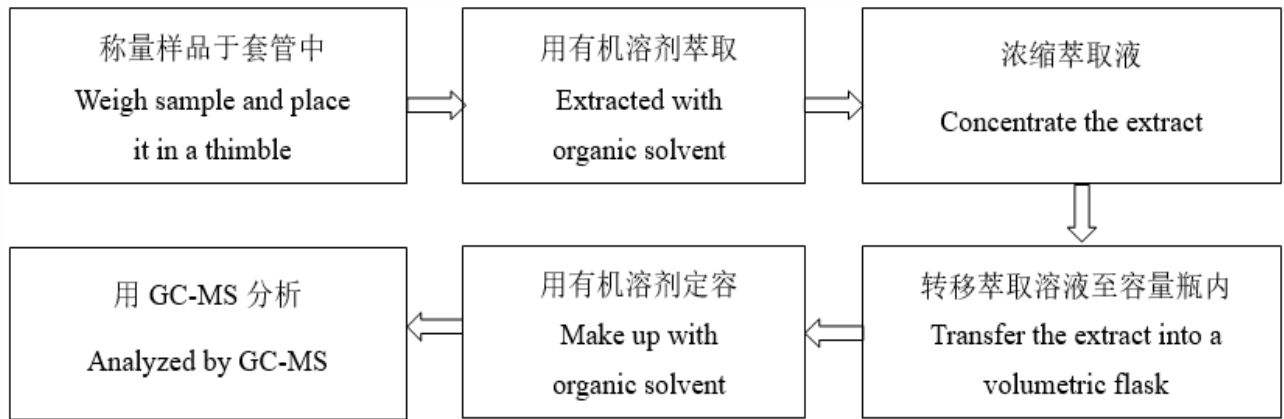
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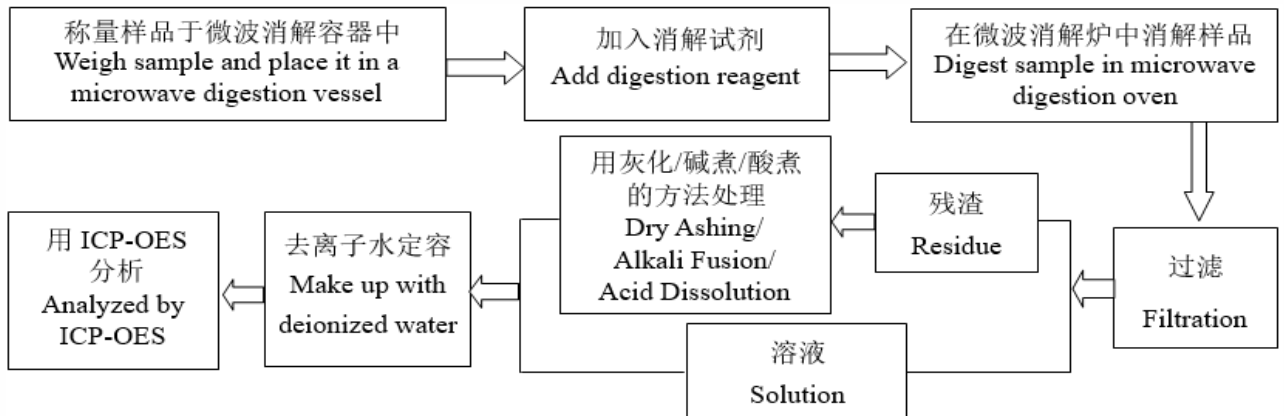
4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



6. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 锡 Tin(Sn)

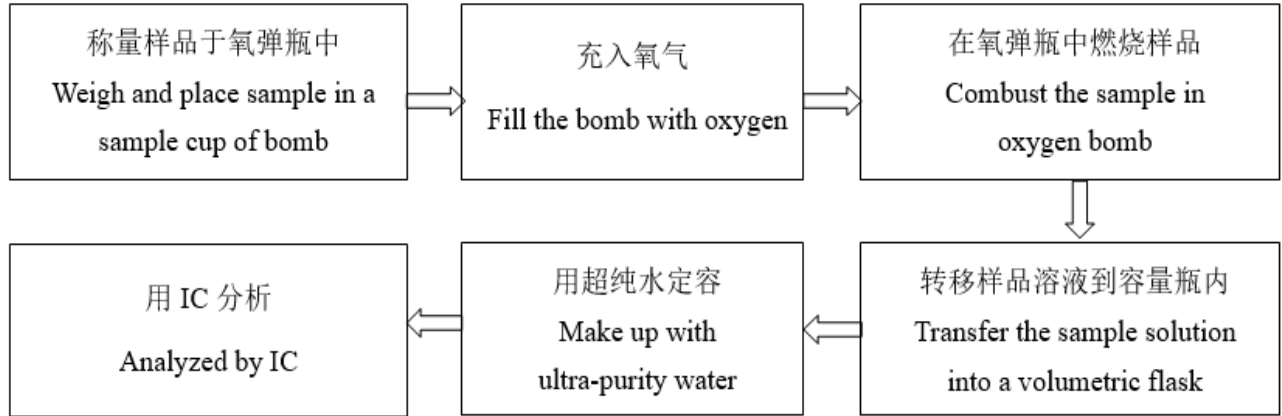


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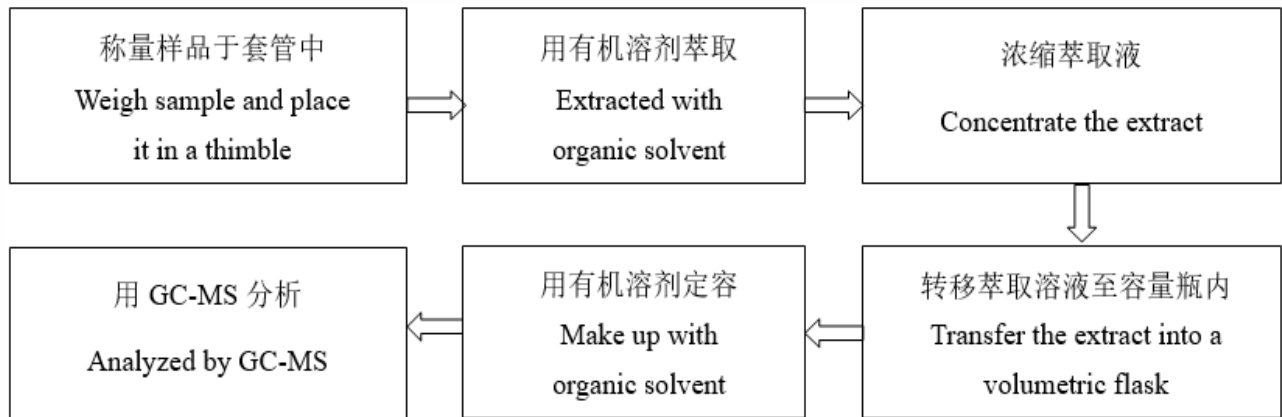
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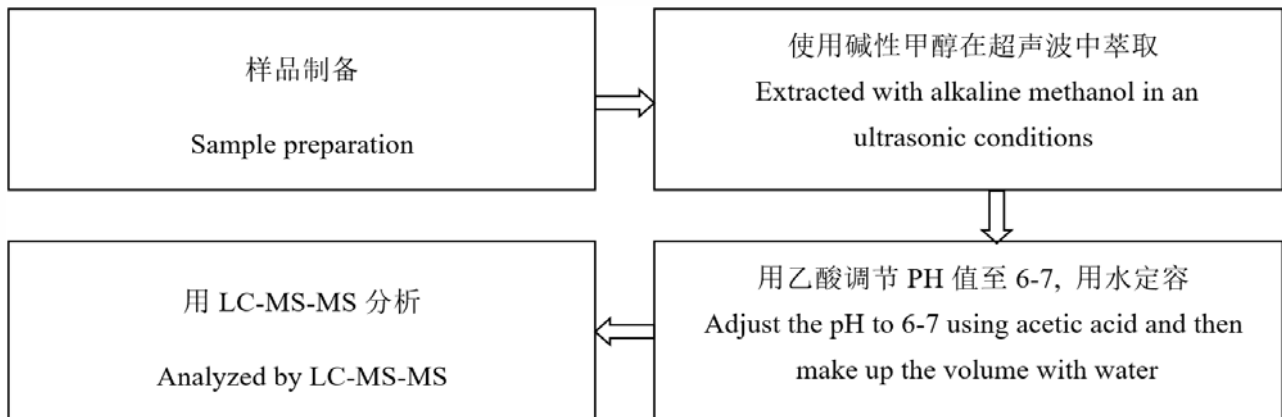
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 六溴环十二烷 Hexabromocyclododecane (HBCDD)



9. 全氟辛酸 (PFOA) Perfluorooctanoic Acid (PFOA), 全氟辛酸磺酸 (PFOS) Perfluorooctane Sulfonates (PFOS)

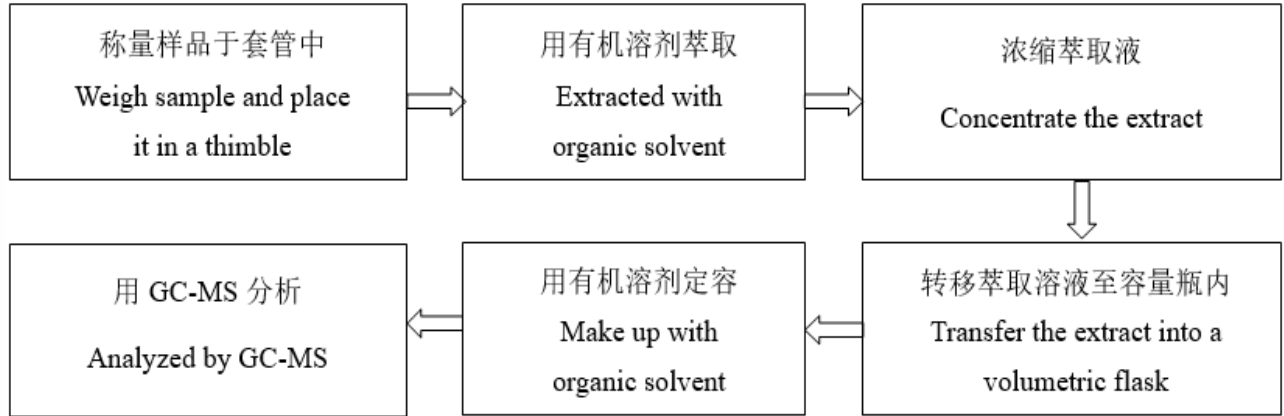


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10. 邻苯二甲酸酯 Phthalates



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检测结果 4 Test Result(s) 4

客户要求 Client's requirement

▼ 全氟己酸(PFHxA)及其盐和相关物质 Perfluorohexanoic acid (PFHxA) and its salts & related substances*¹

测试方法: EN 17681-1:2025; 测试仪器: LC-MS-MS & GC-MS

Test Method: EN 17681-1:2025; Test Equipment: LC-MS-MS & GC-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		004	
PFHxA 及其盐 PFHxA and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts	-	N.D.	--
6:2 FTS 及其盐 6:2 FTS and its salts*	-	N.D.	0.010
1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	N.D.	0.100
1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6	N.D.	0.200
1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	N.D.	0.200
2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	N.D.	0.010
5:3 FTCA 及其盐 5:3 FTCA and its salts*	-	N.D.	0.010
三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	N.D.	0.200
全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	N.D.	0.200
3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	N.D.	0.200
甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	N.D.	0.200
三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	N.D.	0.200
1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	N.D.	0.200
1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	N.D.	0.200
乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	N.D.	0.200
1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	N.D.	0.200
1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	N.D.	0.200
N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIETa)	852527-50-5	N.D.	0.200

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		004	
三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	N.D.	0.200
2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 (5:1 FTOH)	423-46-1	N.D.	0.200
3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	N.D.	0.200
1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	N.D.	0.200
全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7	N.D.	0.200
2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9	N.D.	0.200
4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8	N.D.	0.200
1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1	N.D.	0.200
三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2	N.D.	0.200
3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1	N.D.	0.200
1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6	N.D.	0.200
4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苯醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0	N.D.	0.200
N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3	N.D.	0.010
多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7	N.D.	0.010
2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	N.D.	0.010

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测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
		004	
Cheminox FHP 2OH(PFHEPA)及其盐 Cheminox FHP 2OH(PFHEPA) and its salts*	-	N.D.	0.010
6:2monoPAPs 及其盐 6:2monoPAPs and its salts*	-	N.D.	0.010
反式-1,2-双(全氟己基)乙烯 trans-1,2- Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)	51249-67-3	N.D.	0.200
1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6	N.D.	0.200
1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8	N.D.	0.200
全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5	N.D.	0.200
1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0	N.D.	0.200
1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4	N.D.	0.200
全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1	N.D.	0.200
6:6 PFPi 及其盐 6:6 PFPi and its salts*	-	N.D.	0.010
6:2diPAPS 及其盐 6:2diPAPS and its salts*	-	N.D.	0.010
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances	-	N.D.	--

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- * = PFHxA 及其盐和相关物质清单中列出的物质 The substances listed in the List of PFHxA and its salts & related substances

PFHxA 及其盐和相关物质清单 List of PFHxA and its salts & related substances

序号 No.	组名 Group Name	物质名称 Substance Name(s)	CAS No.
全氟己酸(PFHxA)及其盐 Perfluorohexanoic acid (PFHxA) and its salts			
1	PFHxA 及其盐 PFHxA and its salts	全氟己酸 Perfluorohexanoic acid (PFHxA)	307-24-4
2		全氟己酸钠 Sodium undecafluorohexanoate (PFHxA-Na)	2923-26-4
3		全氟己酸钾 Hexanoic acid, undecafluoro-, potassium salt (PFHxA-K)	3109-94-2
4		全氟己酸锂 Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
5		全氟己酸银 Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
6		全氟己酸铵 Ammonium perfluorohexanoate (PFHxA-NH ₄)	21615-47-4
7		全氟己酰氟 Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
8		全氟己酰氯 Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5
9		全氟己酸哌嗪(2:1) Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) (PFHxA-C ₄ H ₁₀ N ₂)	423-47-2
10		全氟己酸己胺 Undecafluorohexanoic acid-hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4
11		全氟己酸苯基哌嗪 1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C ₁₀ H ₁₄ N ₂)	985-60-4

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12		全氟己酸盐 Perfluorohexanoate (anion) (PFHxA (anion))	92612-52-7	
13		全氟己酸酐 Perfluorohexanoic anhydride (PFHxAA)	308-13-4	
全氟己酸(PFHxA)相关物质 Perfluorohexanoic acid (PFHxA) related substances				
14	6:2 FTS 及其盐 6:2 FTS and its salts	1H,1H,2H,2H-全氟辛磺酸 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid (6:2 FTS)	27619-97-2	
15		1H,1H,2H,2H-全氟辛磺酸钠 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid sodium salt (6:2 FTS-Na)	27619-94-9	
16		1H,1H,2H,2H-全氟辛磺酸钾 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid potassium salt (6:2 FTS-K)	59587-38-1	
17		1H,1H,2H,2H-全氟辛磺酸铵 1H,1H,2H,2H-Perfluoro-octane-sulphonic acid ammonium salt (6:2 FTS-NH ₄)	59587-39-2	
18		1-辛烷磺酸,3,3,4,4,5,5,6,6,7,7,8,8-三氟-钡盐(2:1) 1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,barium salt (2:1) (6:2 FTS-Ba ²⁺)	1807944-82-6	
19		1H,1H,2H,2H-全氟辛磺酸盐 2-(Perfluorohexyl)ethane-1-sulfonate (6:2 FTS (anion))	425670-75-3	
20		1H,1H,2H,2H-全氟辛磺酰氯 2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	
21		--	1H,1H,2H,2H-全氟-1-辛醇 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
22		--	1H,1H,2H,2H-全氟辛醇丙烯酸酯 1H,1H,2H,2H-Perfluoro octyl acrylate (6:2 FTA)	17527-29-6
23	--	1H,1H,2H,2H-全氟辛基甲基丙烯酸酯 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMAC)	2144-53-8	
24	--	2-全氟己基乙酸 2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	
25	5:3 FTCA 及其盐 5:3 FTCA and its salts	3-全氟戊基丙酸 3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	
26		3-全氟戊基丙酸盐 2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	
27	--	三氯(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)硅烷 Trichloro(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (FOTS)	78560-45-9	
28	--	全氟己基乙烯(Perfluorohexyl)ethylene (PFHE)	25291-17-2	
29	--	3-(全氟正己基)丙醇 3-(Perfluorohexyl)propan-1-ol (6:3 FTOH)	80806-68-4	
30	--	甲基全氟戊基酮 Methyl Perfluoroamyl Ketone (5:2 ketone)	2708-07-8	
31	--	三甲基(十三氟己基)硅烷 Trimethyl(tridecafluorohexyl)silane (TMPFHSI)	135841-49-5	
32	--	1H,1H-十三氟-1-碘庚烷 1H,1H-Tridecafluoro-1-iodoheptane (PFIH)	212563-43-4	
33	--	1H,1H,2H,2H-全氟辛基三乙氧基硅烷 1H,1H,2H,2H-perfluorooctyltriethoxysilane (PFOTOSI)	51851-37-7	
34	--	乙基全氟正戊酮 Ethyl Undecafluoroamyl Ketone (EtPFPK)	383177-55-7	
35	--	1-溴全氟己烷 1-Bromoperfluorohexane (PFHBr)	335-56-8	
36	--	1H,1H,2H,2H-十三氟碘正辛烷 1H,1H,2H,2H-Perfluorooctyl iodide (PFIIO)	2043-57-4	
37	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基)碘乙酰胺 N-(4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl)iodoacetamide (N-PFNIEtA)	852527-50-5	
38	--	三甲氧基(3,3,4,4,5,5,6,6,7,7,8,8,8-三氟基)硅烷 Trimethoxy(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)silane (TMTFSI)	85857-16-5	
39	--	2,2,3,3,4,4,5,5,6,6,6-十一氟己烷-1-醇 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexan-1-ol (5:1 FTOH)	423-46-1	
40	--	3-(全氟正己基)环氧丙烷 3-Perfluorohexyl-1,2-epoxypropane (3-PFH-1,2-HPPO)	38565-52-5	
41	--	1,1,1,2,3,4,4,5,5,5-十氟-3-甲氧基-2-三氟甲基戊烷 1,1,1,2,2,3,4,5,5,5-Decafluoro-3-methoxy-4-(trifluoromethyl)pentane (HFE-7300)	132182-92-4	

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42	--	全氟庚酰胺 Tridecafluoroheptanamide (TPFHpA)	2358-22-7
43	--	2-碘-1H,1H,1H,2H,3H,3H-全氟壬烷 1-(Perfluorohexyl)-2-iodopropane (PFNI)	38550-34-4
44	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基硫氰酸酯 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl thiocyanate (PFHTH)	26650-09-9
45	--	4,4,5,5,6,6,7,7,8,8,9,9,9-十三氟壬基碘化物 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (TFNI)	89889-20-3
46	--	3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟-1-辛硫醇 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctane-1-thiol (PFOctSOH)	34451-26-8
47	--	1H,1H,2H,2H-全氟辛基二甲基氯硅烷 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (PFODMeCLSI)	102488-47-1
48	--	三乙氧基[5,5,6,6,7,7,7-七氟-4,4-双(三氟甲基)庚基]硅烷 Triethoxy[5,5,6,6,7,7,7-heptafluoro-4,4-bis(trifluoromethyl)heptyl]silane (EtPFMHepSI)	130676-81-2
49	--	3,3,4,4,5,5,6,6,7,7,7-十一氟-2-庚醇 3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-2-ol (5:2sFTOH)	914637-05-1
50	--	1H,1H-十三氟-1-庚醇 1H,1H-Perfluoro-1-heptanol (PFHepOH)	375-82-6
51	--	4-(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟辛基)苄醇 4-(3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)benzyl alcohol (4-PFOBA)	356055-76-0
52	--	N-[羧甲基-N,N-二甲基-3-[(3,3,4,4,5,5,6,6,7,7,8,8,8-十三氟代辛基)磺酰胺基]丙基]铵内盐 Carboxymethyl dimethyl-3-[[3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl]amino]propylammonium hydroxide (6:2 FTAB)	34455-29-3
53	--	多氟烷基氧化胺型表面活性剂 N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide N-oxide (N-diPTFOP-N-oxide)	80475-32-7
54	--	2H,2H,3H,3H-全氟壬酸 2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4
55	Cheminox FHP 2OH(PFHEPA) 及其盐	全氟己基乙基膦酸 Perfluorohexyl ethylphosphonic acid (Cheminox FHP 2OH(PFHEPA))	252237-40-4
56	Cheminox FHP 2OH(PFHEPA) and its salts	全氟己基乙基膦酸钠 Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6
57	6:2monoPAPs 及其盐 6:2monoPAPs and its salts	单[2-(全氟己基)乙基]磷酸酯 1-Octanol,3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-,1-(dihydrogen phosphate) (6:2monoPAPs)	57678-01-0
58		6:2 磷酸氟调聚物单酯钠盐 Sodium 1H,1H,2H,2H-Perfluorooctylphosphate (6:2monoPAPs-Na)	144965-22-0
59		6:2 磷酸氟调聚物单酯钾盐 Monopotassium monoperfluorohexyl ethylphosphate (6:2monoPAPs-K)	150033-28-6
60		6:2 磷酸氟调聚物单酯铵盐 Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate (6:2monoPAPs-NH ₄)	2353-52-8
61		6:2 磷酸氟调聚物单酯单铵盐 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt (6:2monoPAPs-NH ₄ (-))	92401-44-0
62		6:2 磷酸氟调聚物单酯二铵盐 Diammonium 6:2 fluorotelomer phosphate monoester (6:2monoPAPs-NH ₄ NH ₄)	1000852-37-8
63		--	反式-1,2-双(全氟己基)乙烯 trans-1,2-Bis(perfluorohexyl)ethylene ((7E)-BIS-PFHE)
64	--	1H-全氟-1-辛炔 1H-Perfluorooct-1-yne (PF-n-HA)	55756-24-6
65	--	1-(全氟己基)辛烷 1-(Perfluorohexyl)octane (MIEBO)	133331-77-8
66	--	全氟己基乙烷(Perfluoro-n-hexyl)ethane (TFHE)	80793-17-5

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67	--	1H,1H-全氟己胺 1H,1H-Perfluorohexylamine (UFHA)	355-34-0
68	--	1H,1H-全氟庚基胺 1H,1H-Perfluoroheptylamine (TFHA)	423-49-4
69	--	全氟己基碘烷 Perfluoro-1-iodohexane (PFHI)	355-43-1
70	6:6 PFPi 及其盐 6:6 PFPi and its salts	6:6 全氟次磷酸 Bis(tridecafluorohexyl)phosphinic acid (6:6 PFPi)	40143-77-9
71		6:6 全氟次磷酸钠 Sodium bis(perfluorohexyl)phosphinate (6:6 PFPi-Na)	70609-44-8
72		6:6 全氟次磷酸铈 Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7
73		6:6 全氟次磷酸铒 Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8
74	6:2diPAPS 及其盐 6:2diPAPS and its salts	双[2-(全氟己基)乙基]磷酸 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) hydrogen phosphate (6:2diPAPS)	57677-95-9
75		双[2-(全氟己基)乙基]磷酸钠盐 Sodium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-Na)	407582-79-0
76		双[2-(全氟己基)乙基]磷酸铵盐 Ammonium bis[2-(perfluorohexyl)ethyl] phosphate (6:2diPAPS-NH ₄)	1764-95-0
77		双[2-(全氟己基)乙基]磷酸盐 Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2diPAPS(Anion))	667465-18-1

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	004	蓝色漆包线 Blue enamelled wire

注释 Note:

- “*!”表示该项目/方法不在 CNAS 认可范围内
indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;
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In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

UEW 155/180

UEW/Y 155/180

QPN 155/180/200

FIW 155/180

FIW F/R

Hex 155/180

声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

2. 附录内容为 A2250621861101004E 报告的补充。

The Appendix Information is/are the supplement(s) for the Report A2250621861101004E.

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Test Report报告编号 A2250853246102002E
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Page 1 of 19报告抬头公司名称 广东松田科技股份有限公司
Company Name GUANG DONG SUNTEK WIRE CO.,LTD
shown on Report
地 址 广东省台山市水步镇文华开发区 B 区 8 号
Address NO.8 ZONEB,WENHUA DEVELOPMENT ZONE,SHUIBU TOWN TAISHAN
CITY GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 漆包铜圆线
Sample Name Enamelled Round Copper wire
样品接收日期 2025.11.17
Sample Received Date Nov. 17, 2025
样品检测日期 2025.11.17-2025.11.25
Testing Period Nov. 17, 2025 to Nov. 25, 2025

检测要求/检测依据/检测结果 请参见下页。

Test Requested/Test Method/Test Result(s) Please refer to the following page(s).

摘要	根据分析结果, 所提交样品中 SVHC 浓度 $\leq 0.1\%$ (w/w)。	通过
Summary	According to the analytical results, concentrations of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample(s).	PASS



方理松

日 期
Date

2025.11.25

方理松

授权签字人 Lab Authorized
Signatory

No. R735791534

华测检测认证集团股份有限公司

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检测要求

- 1.根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 251 种高关注物质(SVHC)进行筛选测试。
- 2.根据客户要求, 对由欧盟成员国向欧盟化学管理局(ECHA)所提交的 3 种于 2025 年 9 月 1 日公布意向成为法规(EC) No 1907/2006(REACH)中高关注度物质(SVHC)的候选物质进行筛选测试。
- 3.根据客户要求, 对由欧盟成员国向欧盟化学管理局(ECHA)所提交的 1 种于 2021 年 6 月 1 日公布意向成为法规(EC) No 1907/2006(REACH)中高关注度物质(SVHC)的候选物质进行筛选测试。

Test Requested

- 1.As specified by client, to screen the 251 substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 2.As specified by client, to screen the 3 substance published on September 1st 2025 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 3.As specified by client, to screen the 1 substance published on June 1st 2021 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation (EC) No1907/2006 of REACH in the submitted sample(s).

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检测结果1 Test Result(s) 1

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	浓度 Concentration	RL (%)
				(%) 002	
-	-	所有 SVHC 物质 (见候选清单) All tested SVHC (See the candidate list)	-	N.D.	-

检测结果 2 Test Result(s) 2

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	浓度 Concentration	RL (%)
				(%) 002	
-	-	所有意向 SVHC 物质 (见意向 SVHC 物质清单) All tested intention for identification of SVHC (See the list of intention for identification of SVHC)	-	N.D.	-

检测依据 Test Method:

参考 US EPA 3052:1996, US EPA 3050B:1996, US EPA 3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, 内部方法进行样品预处理。
Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, In house method for sample pretreatment.
采用 ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD 及 LC-MS-MS 分析。
Analyzed by ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD and LC-MS-MS.

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	002	混测, 5 种漆包线 Mixed test, 5 kinds of enamelled wire

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备注 Remark:

1. 结果仅显示检出的 SVHC，低于 RL 的 SVHC 没有列出。所有测试的 SVHC 见下页的 SVHC/意向/潜在意向 SVHC 清单。The table of tested result(s) only shows detected SVHC, and SVHC that below RL are not reported. Please refer to the List of SVHC/intention/potential intention for identification of SVHC on next pages.
2. w/w % = 重量百分比 weight by weight; 0.1% = 1000mg/kg = 1000ppm
3. N.D. = 未检出 Not Detected (< RL)
4. RL = 报告检出限 Report Limit (当浓度值≥RL 时显示数据。RL 不同于法规限值。Concentration value will be shown if it ≥ RL. RL is not regulatory limit.)
5. ※ = 意向 SVHC (Intention for identification of SVHC)
6. *:该物质的浓度值是由物质中的特征元素测试结果换算而来。Concentration value of the substance by the conversion from the test results of certain elements.
三丁基氧化锡(TBTO)、二丁基二氯化锡(DBTC)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE) 和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料、双(乙酰丙酮酸)二丁基锡、[二月桂酸二辛基锡，锡烷，二辛基-，双(椰油酰氧基)衍生物，以及任何其他锡烷，二辛基-，双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数]的浓度值是由其特定化合物(三丁基锡(TBT)、二丁基锡(DBT)、二辛基锡(DOT)、单辛基锡(MOT))的结果换算而来。
Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE), Dibutylbis(pentane-2,4-dionato-O,O')tin, [Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety] by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
7. **:在化学物质及其混合物的分类，标记与包装法规，即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中，索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
8. ***:C.I.:颜料索引号 Colour Index
9. ****:蒸馏所分离出来的轻油部分 Light fractions from distillation
10. *****:四硼酸钠，无水和四硼酸钠，水合物的浓度均由四硼酸钠浓度表示，没有考虑结晶水。过硼酸钠，水合物；过硼酸钠盐和过硼酸钠，无水的浓度均由过硼酸钠浓度表示，没有考虑结晶水。Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.

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11. ▲:甲醛与苯胺的低聚物的浓度值是由其特定化合物(2,4-二氨基二苯甲烷、4,4'-二氨基二苯基甲烷、2,2-二氨基二苯基甲烷)的结果换算而来。Concentration value of Formaldehyde, oligomeric reaction products with aniline by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'- Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
12. ①:由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。当其测试结果 $\geq 0.1\%$ w/w 时, 对于该物质是否存在于样品中需核查相应物料的 SDS 或向供应商进行确认。In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking SDS or requesting from suppliers.
13. ②:由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要组成化合物的测试结果是基于特征元素的浓度换算而来。In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
14. 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

注释 Note:

本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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SVHC 候选清单 Candidate List of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
I	1	蒽 Anthracene	120-12-7	0.05
I	2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	0.05
I	3	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	0.05
I	4	二氯化钴 Cobalt dichloride*	7646-79-9	0.01
I	5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	0.01
I	6	三氧化二砷 Diarsenic trioxide*	1327-53-3	0.01
I	7	重铬酸钠 Sodium dichromate*	7789-12-0 10588-01-9	0.01
I	8	二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.05
I	9	邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.05
I	10	六溴环十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.05
I	11	短链氯化石蜡 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	0.05
I	12	三丁基氧化锡 Bis(tributyltin) oxide (TBTO)*	56-35-9	0.05
I	13	砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	0.01
I	14	邻苯二甲酸丁基苯酯 Benzyl butyl phthalate(BBP)	85-68-7	0.05
I	15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	0.01
II	16	①蒽油 Anthracene oil	90640-80-5	0.05
II	17	①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. lights****	91995-17-4	0.05
II	18	①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.05
II	19	①蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	0.05
II	20	①蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	0.05
II	21	①煤焦油沥青,高温 Pitch, coal tar, high-temp.	65996-93-2	0.05
II	22	丙烯酰胺 Acrylamide	79-06-1	0.05
II	23	2,4-二硝基甲苯 2,4-dinitrotoluene	121-14-2	0.05
II	24	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	0.05
II	25	②铬酸铅 Lead chromate	7758-97-6	0.01
II	26	②铅铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	0.01
II	27	②铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	0.01
II	28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	0.05
III	29	三氯乙烯 Trichloroethylene	79-01-6	0.05
III	30	硼酸 Boric acid*	10043-35-3 11113-50-1	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
III	31	^② 四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	0.01
III	32	^② 四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	0.01
III	33	铬酸钠 Sodium chromate*	7775-11-3	0.01
III	34	铬酸钾 Potassium chromate*	7789-00-6	0.01
III	35	重铬酸铵 Ammonium dichromate*	7789-09-5	0.01
III	36	重铬酸钾 Potassium dichromate*	7778-50-9	0.01
IV	37	硫酸钴 Cobalt(II) sulphate*	10124-43-3	0.01
IV	38	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	0.01
IV	39	碳酸钴 Cobalt(II) carbonate*	513-79-1	0.01
IV	40	醋酸钴 Cobalt(II) diacetate*	71-48-7	0.01
IV	41	乙二醇单甲醚 2-methoxyethanol	109-86-4	0.05
IV	42	乙二醇单乙醚 2-ethoxyethanol	110-80-5	0.05
IV	43	三氧化铬 Chromium trioxide*	1333-82-0	0.01
IV	44	^① 铬酸及其低聚物、重铬酸及其低聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	0.01
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	0.05
V	46	铬酸锶 Strontium chromate*	7789-06-2	0.01
V	47	^① 1,2-苯二酸-二(C7-11 支链与直链)烷基(醇)酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.05
V	48	胍 Hydrazine	7803-57-8 302-01-2	0.05
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone (NMP)	872-50-4	0.05
V	50	1, 2, 3-三氯丙烷 1,2,3-trichloropropane	96-18-4	0.05
V	51	^① 邻苯二甲酸二(C6-8 支链烷基酯)(C7 富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.05
VI	52	铬酸铬 Dichromium tris(chromate)*	24613-89-6	0.01
VI	53	氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.01
VI	54	氢氧化铬酸锌 Pentazinc chromate octahydroxide*	49663-84-5	0.01
VI	55	^② 硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF)**	-	0.01
VI	56	^② 氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	0.01
VI	57	^① 甲醛与苯胺的低聚物 Formaldehyde, oligomeric reaction products with aniline▲	25214-70-4	0.05
VI	58	邻苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	0.05
VI	59	2-甲氧基苯胺(邻甲氧基苯胺) 2-Methoxyaniline (o-Anisidine)	90-04-0	0.05
VI	60	4-(1,1,3,3-四甲基丁基)苯酚 (别名: 对特辛基苯酚) 4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.05
VI	61	1,2-二氯乙烷 1,2-dichloroethane	107-06-2	0.05
VI	62	双(2-甲氧基乙基)醚(别名: 二乙二醇二甲醚) Bis(2-methoxyethyl) ether	111-96-6	0.05
VI	63	砷酸 Arsenic acid*	7778-39-4	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
VI	64	磷酸钙 Calcium arsenate*	7778-44-1	0.01
VI	65	磷酸铅 Trilead diarsenate*	3687-31-8	0.01
VI	66	N,N-二甲基乙酰胺 N,N-dimethylacetamide (DMAC)	127-19-5	0.05
VI	67	4,4'-亚甲基双(2-氯苯胺) 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.05
VI	68	酚酞 Phenolphthalein	77-09-8	0.05
VI	69	叠氮化铅 Lead diazide, Lead azide*	13424-46-9	0.01
VI	70	2,4,6-三硝基间苯二酚铅(别名: 收敛酸铅) Lead styphnate*	15245-44-0	0.01
VI	71	苦味酸铅 Lead dipicrate*	6477-64-1	0.01
VII	72	1,2-二(2-甲氧基乙氧基)乙烷 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	0.05
VII	73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.05
VII	74	三氧化二硼 Diboron trioxide*	1303-86-2	0.01
VII	75	甲酰胺 Formamide	75-12-7	0.05
VII	76	甲基磺酸铅 Lead(II) bis(methanesulfonate)*	17570-76-2	0.01
VII	77	异氰尿酸三缩水甘油酯 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.05
VII	78	异氰脲酸 β-三缩水甘油酯 1,3,5-tris[[4-(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.05
VII	79	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	0.05
VII	80	4,4'-(对二甲氨基)二苯基甲烷(米氏碱) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.05
VII	81	C.I.碱性紫 3 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	0.05
VII	82	C.I.碱性蓝 26 [4-[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)***	2580-56-5	0.05
VII	83	C.I.溶剂蓝 4 α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	0.05
VII	84	α, α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 4,4'-bis(dimethylamino)- 4''-(methylamino)trityl alcohol	561-41-1	0.05
VIII	85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.05
VIII	86	①4-壬基酚, 分支或线性的壬基酚, 包括含有 9 个碳烷基链的所有独立的同分异构体和所有含有线性或分支 9 个碳烷基链的 UVCB 物质 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05

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VIII	87	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))(ADCA)	123-77-3	0.05
VIII	88	对特辛基苯酚乙氧基醚 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.05
VIII	89	全氟十一烷酸 Hencosafluoroundecanoic acid	2058-94-8	0.05
VIII	90	全氟十三酸 Pentacosfluorotridecanoic acid	72629-94-8	0.05
VIII	91	六氢邻苯二甲酸酐, 顺式-六氢邻苯二甲酸酐, 反式-六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans- cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	0.05
VIII	92	甲基六氢苯酐, 4-甲基六氢苯酐, 1-甲基六氢化邻苯二甲酸酐, 3-甲基六氢苯二甲酯酐 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3- methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.05
VIII	93	全氟十四酸 Heptacosfluorotetradecanoic acid	376-06-7	0.05
VIII	94	邻苯二甲酸二异戊酯 Diisopentyl phthalate (DIPP)	605-50-5	0.05
VIII	95	支链和直链 1,2-苯二羧二酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.05
VIII	96	邻苯二甲酸正戊基异戊基酯 n-pentyl-isopentylphthalate	776297-69-9	0.05
VIII	97	甲氧基乙酸 Methoxyacetic acid	625-45-6	0.05
VIII	98	全氟十二烷酸 Tricosfluorododecanoic acid	307-55-1	0.05
VIII	99	乙二醇二乙醚 1,2-diethoxyethane	629-14-1	0.05
VIII	100	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.05
VIII	101	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.05
VIII	102	N-甲基乙酰胺 N-methylacetamide	79-16-3	0.05
VIII	103	氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate*	12065-90-6	0.01
VIII	104	4-氨基联苯 Biphenyl-4-ylamine	92-67-1	0.05
VIII	105	地乐酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.05
VIII	106	双(十八烷基)二氧化三铅 Dioxobis(stearato)trilead*	12578-12-0	0.01
VIII	107	硝酸铅 Lead dinitrate*	10099-74-8	0.01
VIII	108	三碱式硫酸铅 Tetralead trioxide sulphate*	12202-17-4	0.01
VIII	109	氧化铅 Lead monoxide (lead oxide)*	1317-36-8	0.01
VIII	110	钛酸铅 Lead titanium trioxide*	12060-00-3	0.01
VIII	111	4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	838-88-0	0.05
VIII	112	碱式乙酸铅 Acetic acid, lead salt, basic*	51404-69-4	0.01
VIII	113	硫酸二甲酯 Dimethyl sulphate	77-78-1	0.05
VIII	114	呋喃 Furan	110-00-9	0.05

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VIII	115	颜料黄 41 Pyrochlore, antimony lead yellow*	8012-00-8	0.01
VIII	116	四乙基铅 Tetraethyllead*	78-00-2	0.01
VIII	117	二盐基邻苯二甲酸铅[Phthalato(2-)]dioxotrilead*	69011-06-9	0.01
VIII	118	硫酸二乙酯 Diethyl sulphate	64-67-5	0.05
VIII	119	氨基氰铅盐 Lead cyanamidate*	20837-86-9	0.01
VIII	120	掺杂铅的硅酸钡 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	0.01
VIII	121	磷酸氧化铅 Trilead dioxide phosphonate*	12141-20-7	0.01
VIII	122	邻甲基苯胺 o-Toluidine	95-53-4	0.05
VIII	123	邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	0.05
VIII	124	4-对氨基偶氮苯 4-aminoazobenzene	60-09-3	0.05
VIII	125	6-甲氧基-间甲苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.05
VIII	126	二丁基二氯化锡 Dibutyltin dichloride (DBTC)*	683-18-1	0.05
VIII	127	钛酸铅锆 Lead titanium zirconium oxide*	12626-81-2	0.01
VIII	128	环氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	0.05
VIII	129	1-溴代正丙烷 1-bromopropane (n-propyl bromide)	106-94-5	0.05
VIII	130	碱式碳酸铅 Trilead bis(carbonate) dihydroxide*	1319-46-6	0.01
VIII	131	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts*	91031-62-8	0.01
VIII	132	四氧化三铅 Orange lead (lead tetroxide)*	1314-41-6	0.01
VIII	133	二碱式亚硫酸铅(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	0.01
VIII	134	4,4'-二氨基二苯醚及其盐 4,4'-oxydianiline and its salts	101-80-4	0.05
VIII	135	碱式硫酸铅 Lead oxide sulfate*	12036-76-9	0.01
VIII	136	四氟硼酸铅 Lead bis(tetrafluoroborate)*	13814-96-5	0.01
VIII	137	硅酸铅 Silicic acid, lead salt*	11120-22-2	0.01
VIII	138	N,N-二甲基甲酰胺 N,N-dimethylformamide	68-12-2	0.05
IX	139	镉 Cadmium	7440-43-9	0.01
IX	140	氧化镉 Cadmium oxide*	1306-19-0	0.01
IX	141	邻苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	0.05
IX	142	^① 乙氧基化的支链和直链的 4-壬基酚（直链和/或支链的具有 9 个碳原子的烷基链共价键合在 4 位的乙氧基酚，囊括了 UVCB 和定义明确的物质，聚合物及同系物，其中包括任何单独的异构体和/或它们的组合）4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.05
IX	143	全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.05
IX	144	全氟辛酸酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.05
X	145	^① 磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	0.05
X	146	C.I.直接黑 38 Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7- disulphonate (C.I. Direct Black 38)***	1937-37-7	0.05

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X	147	邻苯二甲酸二己酯 Dihexyl phthalate	84-75-3	0.05
X	148	硫化镉 Cadmium sulphide*	1306-23-6	0.01
X	149	C.I.直接红 28 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	0.05
X	150	醋酸铅(II) Lead di(acetate)*	301-04-2	0.01
X	151	1,2-亚乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.05
XI	152	①邻苯二甲酸二己酯, 直链和支链 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.05
XI	153	氯化镉 Cadmium chloride*	10108-64-2	0.01
XI	154	②过硼酸钠, 水合物; 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	0.01
XI	155	②过硼酸钠, 无水 Sodium peroxometaborate*****	7632-04-4	0.01
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-Benzotriazol-2-yl)- 4,6-ditertpentylphenol (UV-328)	25973-55-1	0.05
XII	157	2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 2-Benzotriazol-2-yl-4,6- di-tert-butylphenol (UV-320)	3846-71-7	0.05
XII	158	二正辛基-双(巯乙酸2-乙基己酯)锡 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	0.05
XII	159	氟化镉 Cadmium fluoride*	7790-79-6	0.01
XII	160	硫酸镉 Cadmium sulphate*	10124-36-4 31119-53-6	0.01
XII	161	①二正辛基-双(巯乙酸2-乙基己酯)锡(DOTE)和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料 Reaction mass of 2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4- [[2-[(2-ethylhexyl)oxy]-2-oxoethyl] thio]-4-octyl-7- oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)*	-	0.05
XIII	162	①1,2-苯二羧酸, 二-C6-10-烷基酯; (葵基, 己基, 辛基) 酯与1,2-苯二甲酸的复合物, 其邻苯二甲酸二己酯含量≥0.3% (EC No. 201-559-5) 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201- 559-5)	68515-51-5 68648-93-1	0.05
XIII	163	①5-仲丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合] (卡拉花醛及其异构体以及它们的混合物) 5-sec-butyl-2-(2,4- dimethylcyclohex-3-en- 1-yl)-5- methyl-1,3-dioxane [1], 5-sec- butyl- 2-(4,6-dimethylcyclohex-3-en-1-yl)- 5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.05
XIV	164	硝基苯 Nitrobenzene	98-95-3	0.05

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XIV	165	2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.05
XIV	166	2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.05
XIV	167	1,3-丙烷磺内酯 1,3-propanesultone	1120-71-4	0.05
XIV	168	全氟壬酸及其钠和铵盐 Perfluorononan-1-oiic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.05
XV	169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.05
XVI	170	双酚 A 4,4'-isopropylidenediphenol (bisphenol A) (BPA)	80-05-7	0.05
XVI	171	全氟癸酸(PFDA)及其钠盐和铵盐 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.05
XVI	172	4-(1,1-二甲基丙基)苯酚 (别名: 对叔戊基苯酚) <i>p</i> -(1,1-dimethylpropyl)phenol	80-46-6	0.05
XVI	173	^① 支链与直链的 4-庚基酚(直链和/或支链的具有 7 个碳原子的烷基链共价键在 4 位的苯酚, 囊括了 UVCB 和定义明确的物质, 其中包括任何单独异构体和/或它们的组合) 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
XVII	174	全氟己基磺酸及其盐 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.05
XVIII	175	得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	0.05
XVIII	176	苯并[a]蒽 Benzo[a]anthracene	56-55-3	0.05
XVIII	177	硝酸镉 Cadmium nitrate*	10325-94-7	0.01
XVIII	178	碳酸镉 Cadmium carbonate*	513-78-0	0.01
XVIII	179	氢氧化镉 Cadmium hydroxide*	21041-95-2	0.01
XVIII	180	蒽 Chrysene	218-01-9	0.05
XVIII	181	^① 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和4-庚基苯酚的支链和直链(RP-HP)的反应产物[4-庚基苯酚, 支链和直链含量≥0.1% w/w] Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]	-	0.05
XIX	182	八甲基环四硅氧烷 Octamethylcyclotetrasiloxane (D4)	556-67-2	0.05
XIX	183	十甲基环五硅氧烷 Decamethylcyclopentasiloxane (D5)	541-02-6	0.05
XIX	184	十二甲基环六硅氧烷 Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.05
XIX	185	铅 Lead	7439-92-1	0.01
XIX	186	八硼酸二钠 Disodium octaborate*	12008-41-2	0.01
XIX	187	苯并(g,h,i)芘 Benzo[ghi]perylene	191-24-2	0.05
XIX	188	^① 氢化三联苯 Terphenyl, hydrogenated	61788-32-7	0.05
XIX	189	乙二胺 Ethylenediamine (EDA)	107-15-3	0.05

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XIX	190	偏苯三酸酐 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.05
XIX	191	邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP)	84-61-7	0.05
XX	192	4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.05
XX	193	苯并[k]荧蒽 Benzo[k]fluoranthene	207-08-9	0.05
XX	194	荧蒽 Fluoranthene	206-44-0	0.05
XX	195	菲 Phenanthrene	85-01-8	0.05
XX	196	芘 Pyrene	129-00-0	0.05
XX	197	1,7,7-三甲基-3-(苯亚甲基)双环[2,2,1]庚-2-酮 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (3-BC)	15087-24-8	0.05
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(HFPO-DA) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.05
XXI	199	乙二醇乙醚乙酸酯 2-methoxyethyl acetate	110-49-6	0.05
XXI	200	4-叔丁基苯酚 4-tert-butylphenol	98-54-4	0.05
XXI	201	①三(4-壬基苯基, 支链和直链)亚磷酸酯 Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.05
XXII	202	2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.05
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.05
XXII	204	邻苯二甲酸二异己酯 Diisohexyl phthalate	71850-09-4	0.05
XXII	205	全氟丁烷磺酸(PFBS)及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.05
XXIII	206	1-乙烯基咪唑 1-vinylimidazole	1072-63-5	0.05
XXIII	207	2-甲基咪唑 2-methylimidazole	693-98-1	0.05
XXIII	208	对羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate	94-26-8	0.05
XXIII	209	双(乙酰丙酮酸)二丁基锡 Dibutylbis(pentane-2,4-dionato-O,O')tin*	22673-19-4	0.05
XXIV	210	四乙二醇二甲醚 bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.05
XXIV	211	二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数 Diocyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety*	-	0.05
XXV	212	1,4-二恶烷 1,4-dioxane	123-91-1	0.05

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XXV	213	2,2-双(溴甲基)-1,3-丙二醇 三溴新戊醇/3-溴-2,2-二溴乙基丙醇 2,3-二溴丙醇 2,2-bis(bromomethyl) propane-1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.05
XXV	214	2-(4-叔丁基苄基)丙醛及其立体异构体 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.05
XXV	215	2,2-二(4-羟基苯基)丁烷(双酚 B) 4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.05
XXV	216	戊二醛 Glutaral	111-30-8	0.05
XXV	217	①中链氯化石蜡(UVCB 物质, 由≥80%的直链氯代烷烃组成, 碳链长度在 C14 到 C17 之间) Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.05
XXV	218	硼酸钠盐 Orthoboric acid, sodium salt*	13840-56-7	0.01
XXV	219	①烷基酚, 碳链(C12 为主, 直链或支链)主要在对位, 包括其任何单个异构体或组合 Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.05
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环[2.2.1]庚-2-酮, 包括任何单独的异构体和/或其组合 (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.05
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.05
XXVI	222	S-(三环[5.2.1.0 ^{2,6}]癸-3-烯-8(或 9)-基)O-(异丙基或异丁基或 2-乙基己基)O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯 S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.05
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷 tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.05
XXVII	224	N-羟甲基丙烯酰胺 N-(hydroxymethyl)acrylamide	924-42-5	0.05
XXVIII	225	1,2-二(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbis(oxy)]bis [2,4,6-tribromobenzene]	37853-59-1	0.05
XXVIII	226	四溴双酚 A 2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	0.05
XXVIII	227	双酚 S 4,4'-sulphonyldiphenol (BPS)	80-09-1	0.05
XXVIII	228	偏硼酸钡 Barium diboron tetraoxide*	13701-59-2	0.01
XXVIII	229	3,4,5,6-四溴-1,2-苯二羧酸双(2-乙基己基)酯, 包括任何单独的异构体和/或其组合 Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.05

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XXVIII	230	4-羟基苯甲酸 2-甲基丙酯 Isobutyl 4-hydroxybenzoate	4247-02-3	0.05
XXVIII	231	三聚氰胺 Melamine	108-78-1	0.05
XXVIII	232	全氟庚酸及其盐 Perfluoroheptanoic acid and its salts	-	0.05
XXVIII	233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟烷-4-(七氟丙基)吗啉的反应物料 Reaction mass of 2,2,3,3,5,5,6,6-octafluoro- 4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.05
XXIX	234	二苯基(2,4,6-三甲基苯甲酰基)氧化磷 Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	75980-60-8	0.05
XXIX	235	4,4'-二氯二苯砜 Bis(4-chlorophenyl) sulphone	80-07-9	0.05
XXX	236	2,4,6-三叔丁基苯酚 2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	0.05
XXX	237	2-[2-羟基-5-(1,1,3,3-四甲基)苯基]苯并三唑 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.05
XXX	238	2-(4-甲基苯基)-2-(二甲基氨基)-1-(4-吗啉苯基)-1-丁酮 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4- yl)phenyl]butan-1-one	119344-86-4	0.05
XXX	239	2-(5-氯-2H-苯三唑-2-基)-6-(1,1-二甲基乙基)-4-甲基苯酚 Bumetrizole (UV-326)	3896-11-5	0.05
XXX	240	②-苯基丙烯与苯酚的低聚和烷基化反应产物 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.05
XXXI	241	过氧化二异丙苯 Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.05
XXXI	242	磷酸三苯酯 Triphenyl phosphate	115-86-6	0.05
XXXII	243	6-[(C10-C13)-烷基-(支链, 不饱和)-2,5-二氧吡咯烷-1-基]己酸 6- [(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1- yl]hexanoic acid	2156592-54-8	0.05
XXXII	244	硫代磷酸(O,O,O-三苯基)酯 O,O,O-triphenyl phosphorothioate	597-82-0	0.05
XXXII	245	八甲基三硅氧烷 Octamethyltrisiloxane	107-51-7	0.05
XXXII	246	全氟三丙胺 Perfluamine	338-83-0	0.05
XXXII	247	三苯基硫代磷酸与叔丁基苯衍生物的反应物料 Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.05
XXXIII	248	1,1,1,3,5,5,5-七甲基-3-[(三甲基甲硅烷基)氧基]三硅氧烷 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.05
XXXIII	249	十甲基四硅氧烷 Decamethyltetrasiloxane	141-62-8	0.05
XXXIII	250	活性棕 51 Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-4-{4- chloro-6-({2-[(4-fluoro-6-{4-(vinylsulfonyl)phenyl}amino)- 1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl] amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl} diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.05
XXXIV	251	1,1'-(1,2-亚乙基)双[五溴苯](十溴二苯乙烷) 1,1'-(ethane-1,2-diyl)bis[pentabromobenzene]	84852-53-9	0.05

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意向 SVHC 物质清单 List of intention for identification of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
XXXIV	1	4,4-[2,2,2-三氟-1-(三氟甲基)亚乙基]双酚及其盐 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts	-	0.05
XXXIV	2	4,4'-二羟基二苯甲烷 4,4'-methylenediphenol	620-92-8	0.05
XXXIV	3	正己烷 N-hexane	110-54-3	0.05
※	4	间苯二酚 Resorcinol	108-46-3	0.05

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REACH 法规义务 REACH Regulation obligation:

1. 根据欧盟 REACH 法规（编号 1907/2006）第 7（2）条款之规定物品类产品如果含有候选列表上的高度关注物质且满足如下两个条件，物品的供应方需根据第 7（4）条款的规定向欧洲化学品管理局进行通报：
 - (a) 物品中该高度关注物质制造或进口到欧盟的总量超过 1 吨/每年/每制造商或进口商；
 - (b) 高度关注物质在物品中的含量超过 0.1% (w/w)。

In accordance with Article 7(2) of the EU REACH Regulation (No. 1907/2006), any producer or importer of articles shall notify the European Chemicals Agency as stipulated in Article 7(4), if an article contains a substance from the Candidate List of Substances of Very High Concern (SVHCs) and both the following conditions are met:
(a) the substance is present in those articles in quantities totalling over one tonne per producer or importer per year;

(b) the substance is present in those articles above a concentration of 0.1 % weight by weight (w/w).

2. 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的含量超过 0.1% (w/w)时，物品供应方需履行相关信息传递义务：
Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of EU REACH Regulation (No. 1907/2006).

- 1) 物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.

- 2) 应消费者请求，物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.

3. 根据欧盟 REACH 法规（编号 1907/2006）第 31 条款及附件 II 之规定，提供物质及混合物的供应方向接收方免费提供安全数据表(SDS)。

- 1) 根据欧盟 CLP 法规（编号 1272/2008）被分类为有害的物质或混合物；

- 2) 根据 REACH 法规附件 XIII 被归为 PBT 或 vPvB 的物质；

- 3) 根据 REACH 法规第 59（1）条款被纳入高度关注物质列表上的物质；

- 4) 根据 CLP 法规（编号 1272/2008）未被分类为有害的混合物，但包括：

- (a) 至少一种对人类健康或环境有害的物质，在非气体混合物中包含单个浓度 $\geq 1\%$ (w/w)或在气体混合物中包含单个浓度 $\geq 0.2\%$ (v/v)；

- (b) 至少一种属于高度关注物质，在非气体混合物中包含单个浓度 $\geq 0.1\%$ (w/w)；

- (c) 超出欧盟工作场所暴露极限的物质。

In accordance with Article 31 of the EU REACH Regulation (No. 1907/2006), the supplier of a substance or a mixture shall provide the recipient of the substance or mixture with a safety data sheet (SDS) for free compiled in accordance with Annex II of REACH.

- 1) where a substance or mixture meets the criteria for classification as hazardous in accordance with Regulation (EC) No 1272/2008; or

- 2) where a substance is persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with the criteria set out in Annex XIII; or

- 3) where a substance is included in the list established in accordance with Article 59(1) for reasons other than those referred to in points (a) and (b);

- 4) the supplier shall provide the recipient at his request with a safety data sheet (SDS) compiled in accordance with Annex II, where a mixture does not meet the criteria for classification as hazardous in accordance with Titles I and II of Regulation (EC) No 1272/2008, but contains:

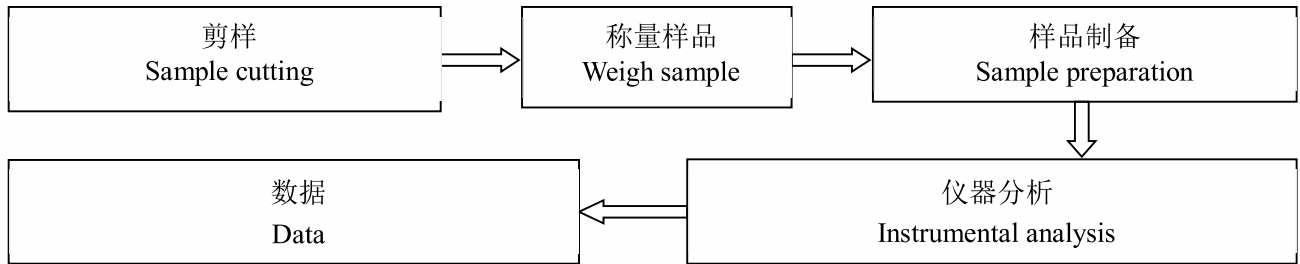
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- (a) in an individual concentration of $\geq 1\%$ by weight for non-gaseous mixtures and $\geq 0.2\%$ by volume for gaseous mixtures at least one substance posing human health or environmental hazards; or
 - (b) in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures at least one substance that has been included in the Candidate List of Substances of Very High Concern (SVHCs); or
 - (c) a substance for which there are Community workplace exposure limits.
4. 自 2021 年 1 月 5 日，投放欧盟市场的含有高度关注物质 (SVHCs) 含量超过 0.1 % (w/w) 的物品公司，需依据废弃物框架指令（编号 2008/98）向欧洲化学品管理局提交相关信息到 SCIP 数据库。
Companies supplying articles containing Substances of Very High Concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market have to submit information on these articles to ECHA in accordance with Waste Framework Directive (WFD) (No 2008/98, as from 5 January 2021).

检测流程 Test Process



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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明，报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定;
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意，不得部分复制本报告;
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6. 如报告中的英文内容与中文内容有差异，以中文为准。
In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

HBUEW 130/155/180

SBUEW 130/155/180

UEW 155/180

UEW/Y 155/180

QPN 155/180/200

FIW 155/180

FIW F/R

Hex 155/180

HBAIW 200/220

SEIW 180

SEIW/Y 180

EIW 180/200

PIW 240

AIW 220

EI/AIW 200/220

声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。
The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. 附录内容为 A2250853246102002E 报告的补充。
The Appendix Information is/are the supplement(s) for the Report A2250853246102002E.

检测报告
Test Report报告编号 A2250673720101002E
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Page 1 of 8报告抬头公司名称 湖南艾迪奥电子科技有限公司
Company Name HUNAN IDEA ELECTRONIC TECHNOLOGY CO., LTD
shown on Report
地址 湖南省益阳高新技术产业区东部新区
Address THE EAST NEW DISTRICT HIGH-TECH INDUSTRIAL YIYANG CITY HUNAN
PROVINCE OF CHINA

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 Mn-Zn Ferrite Core
Sample Name Mn-Zn Ferrite Core
样品接收日期 2025.09.12
Sample Received Date Sep. 12, 2025
样品检测日期 2025.09.12-2025.09.15
Testing Period Sep. 12, 2025 to Sep. 15, 2025

检测要求 根据客户要求, 对所提交样品中的铅 (Pb), 镉 (Cd), 汞 (Hg), 六价铬 (Cr (VI)), 溴联苯 (PBBs), 多溴二苯醚 (PBDEs), 邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP), 氟 (F), 氯 (Cl), 溴 (Br), 碘 (I) 进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).批准
Approved by

郑晴涛

郑晴涛

技术经理 Technical Manager

日期
Date

2025.09.15

No. R294341491

广东省深圳市宝安区新安街道兴东社区华测检测大楼

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 Submitted Sample	欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	符合 PASS

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	002	深灰色固体 Dark grey solid

备注: 对于检测铅, 镉, 汞之样品已消解完全。
-N.D. = 未检出 (小于方法检出限)
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

CTI 华测检测 章 065

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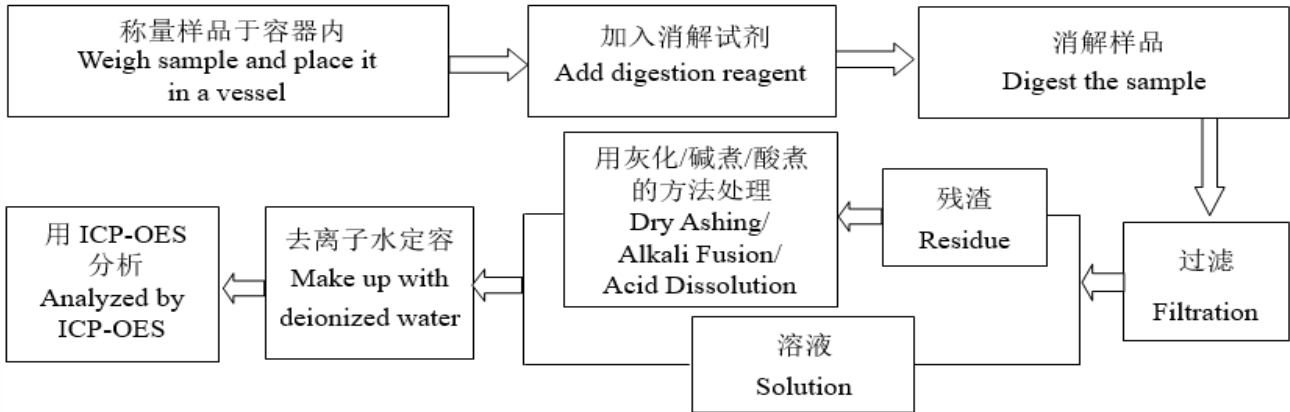
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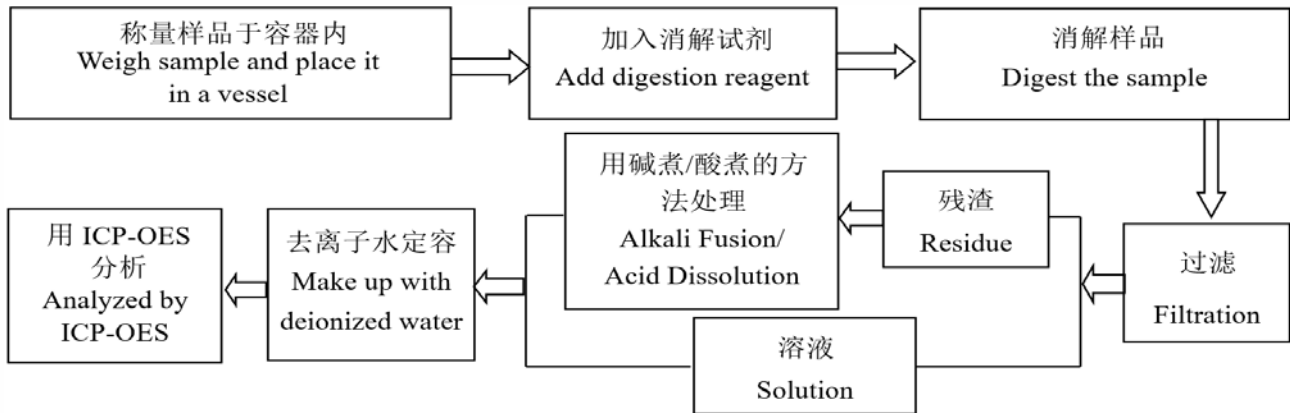
1. 铅(Pb), 镉(Cd), 铬(Cr)

Lead (Pb), Cadmium (Cd), Chromium (Cr)



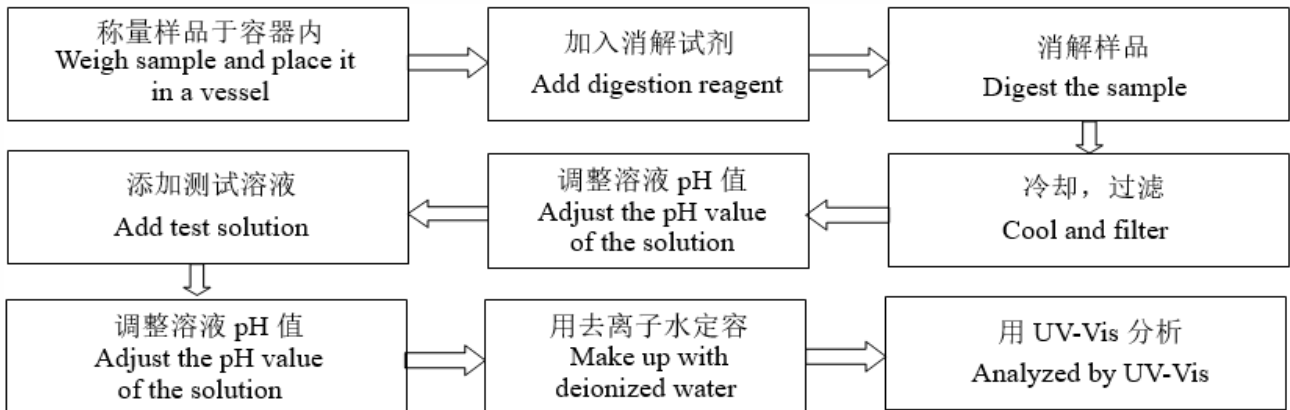
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



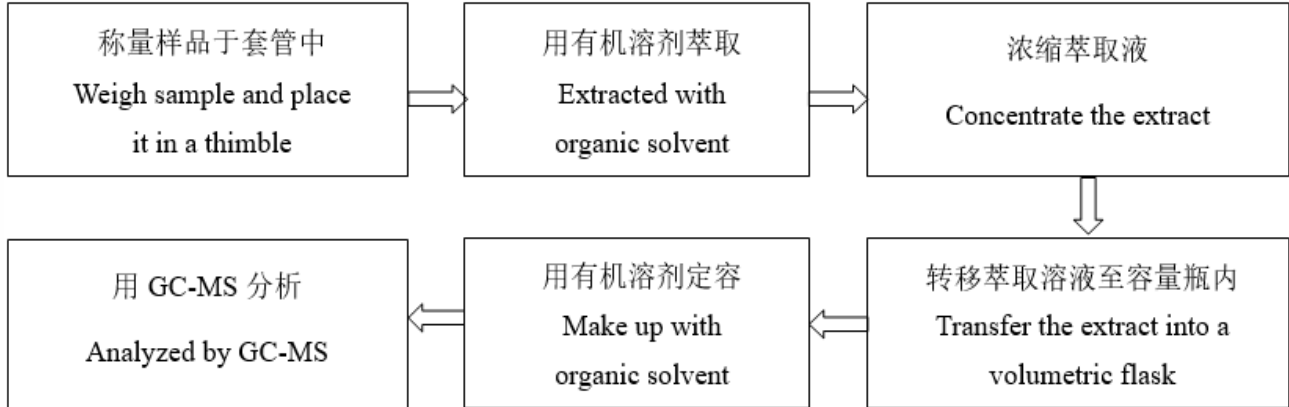
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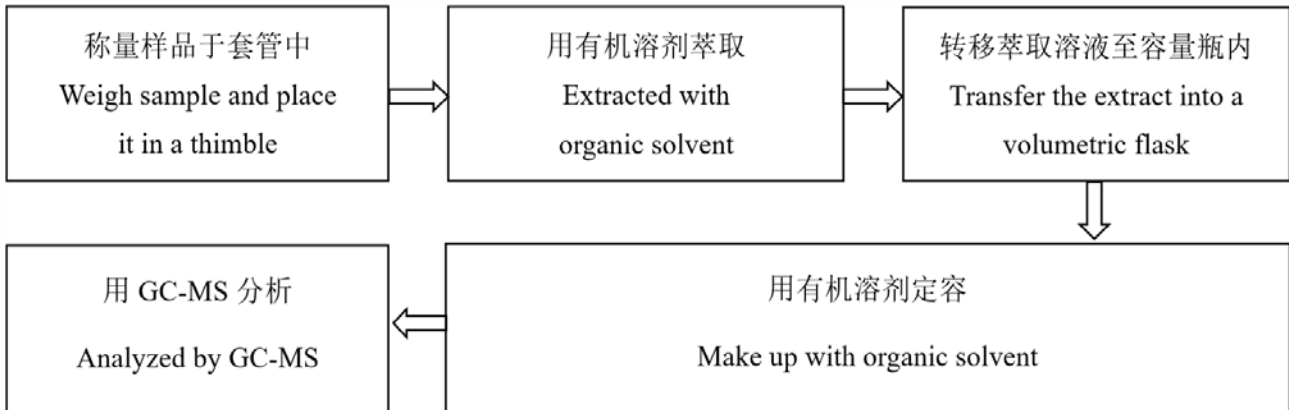
4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



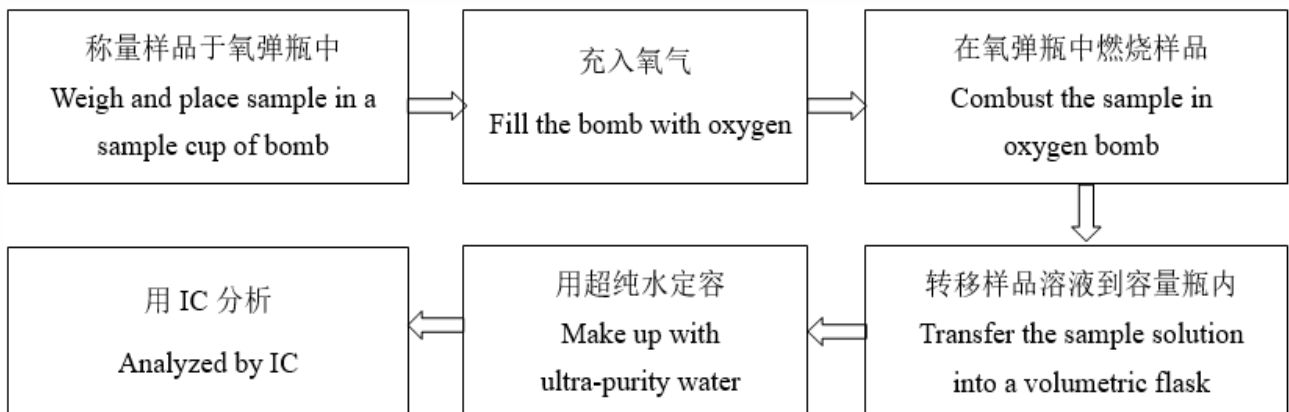
5. 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



6. 氟(F), 氯(Cl), 溴(Br), 碘(I)

Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



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样品图片 Photo(s) of the sample(s)



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2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照ILAC-G8:09/2019 / CNAS-GL015:2022使用简单接受(w=0)二元判定规则进行符合性判定;
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经CTI书面同意, 不得部分复制本报告;
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In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

报告结束

*** End of report ***

检测报告
Test Report报告编号 A2250673720101001E
Report No. A2250673720101001E第 1 页 共 8 页
Page 1 of 8报告抬头公司名称 湖南艾迪奥电子科技有限公司
Company Name HUNAN IDEA ELECTRONIC TECHNOLOGY CO., LTD
shown on Report
地 址 湖南省益阳高新技术产业区东部新区
Address THE EAST NEW DISTRICT HIGH-TECH INDUSTRIAL YIYANG CITY HUNAN
PROVINCE OF CHINA

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 Ni-Zn Ferrite Core
Sample Name Ni-Zn Ferrite Core
样品接收日期 2025.09.12
Sample Received Date Sep. 12, 2025
样品检测日期 2025.09.12-2025.09.15
Testing Period Sep. 12, 2025 to Sep. 15, 2025

检测要求 根据客户要求, 对所提交样品中的铅 (Pb), 镉 (Cd), 汞 (Hg), 六价铬 (Cr (VI)), 溴联苯 (PBBs), 多溴二苯醚 (PBDEs), 邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP), 氟 (F), 氯 (Cl), 溴 (Br), 碘 (I) 进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).批准
Approved by

郑晴涛

郑晴涛

技术经理 Technical Manager

日期
Date

2025.09.15

No. R294341491

广东省深圳市宝安区新安街道兴东社区华测检测大楼

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

检测报告 Test Report

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结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 Submitted Sample	欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	符合 PASS

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	001	深灰色固体 Dark grey solid

备注: 对于检测铅, 镉, 汞之样品已消解完全。
-N.D. = 未检出 (小于方法检出限)
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

CTI 华测检测 章 085

检测报告 Test Report

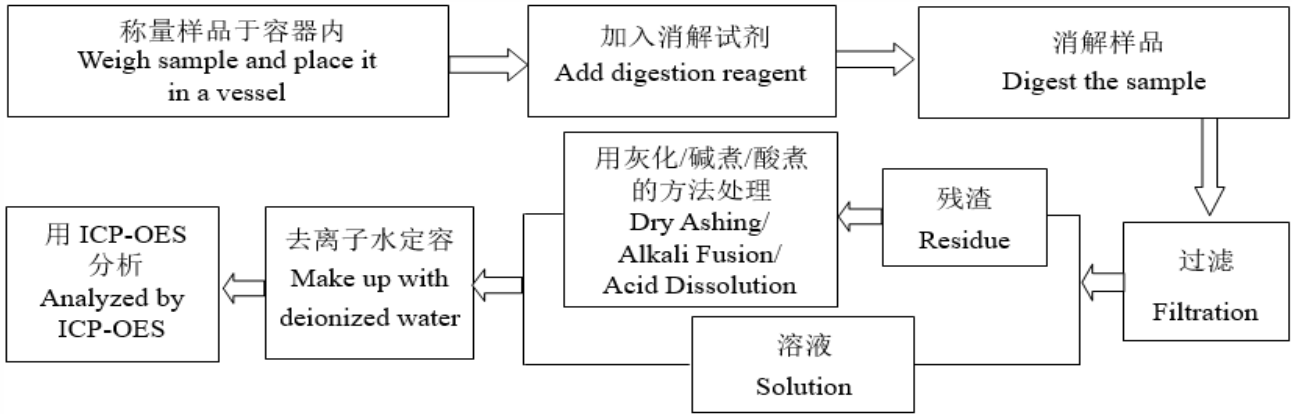
报告编号 A2250673720101001E
Report No. A2250673720101001E

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检测流程 Test Process

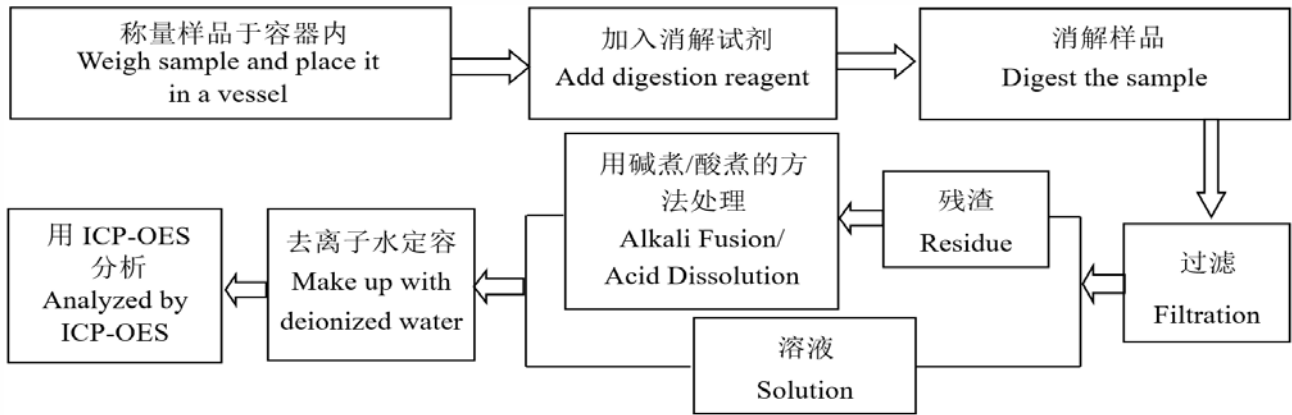
1. 铅(Pb), 镉(Cd), 铬(Cr)

Lead (Pb), Cadmium (Cd), Chromium (Cr)



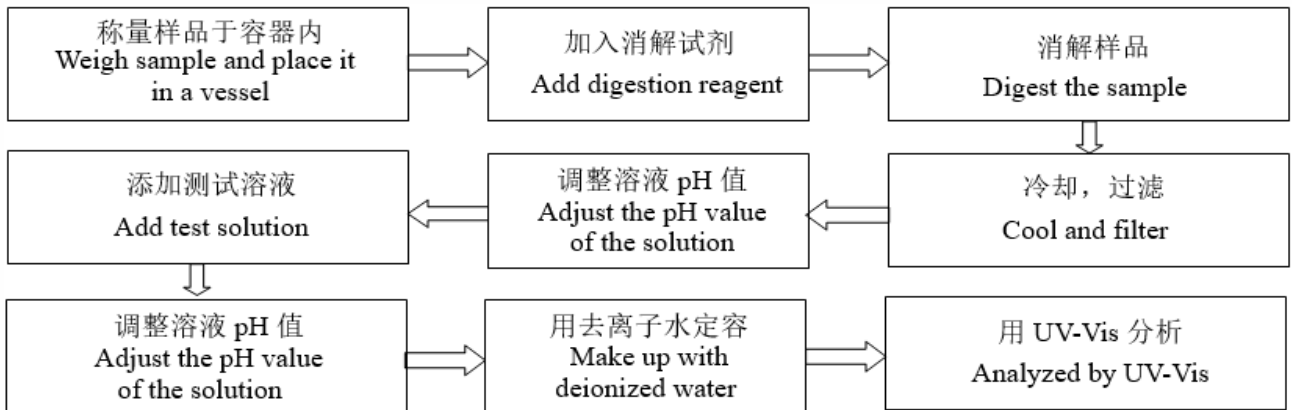
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



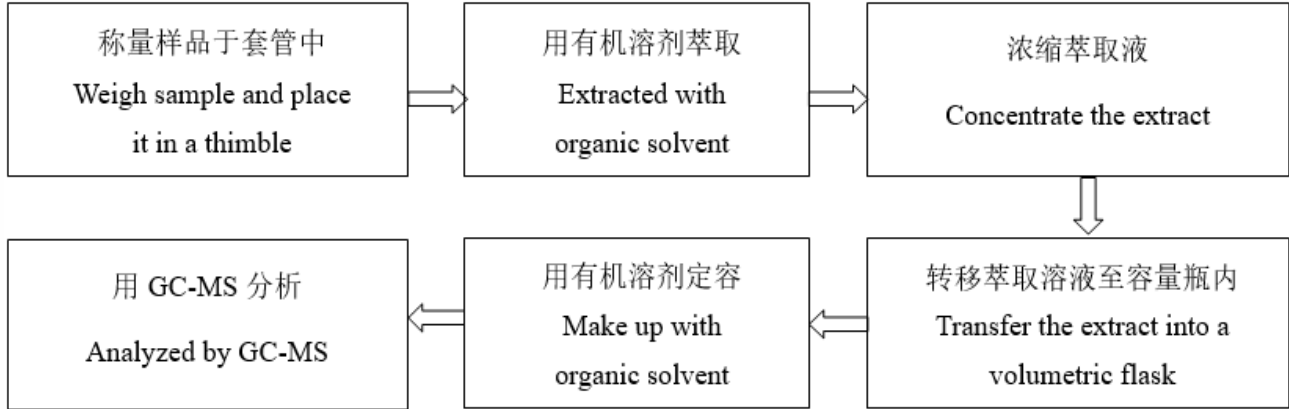
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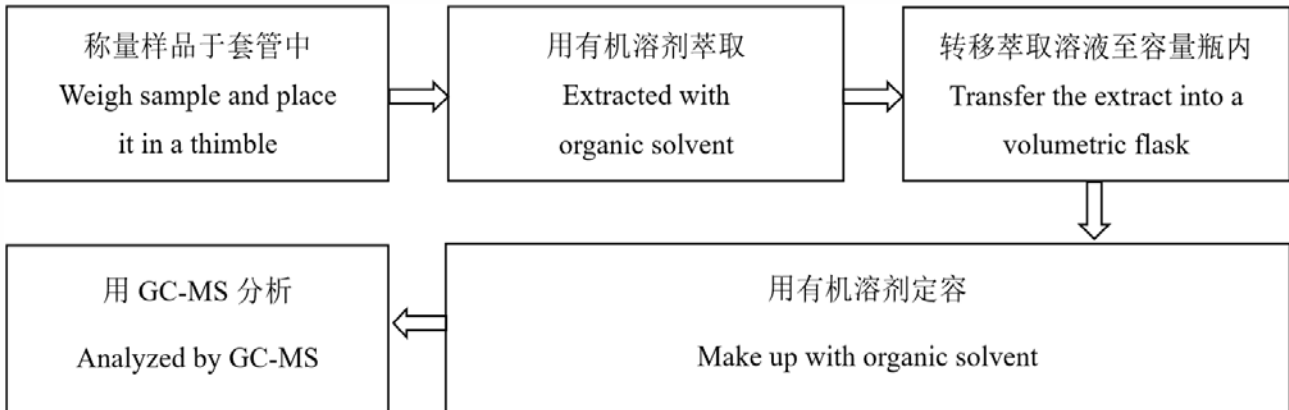
4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



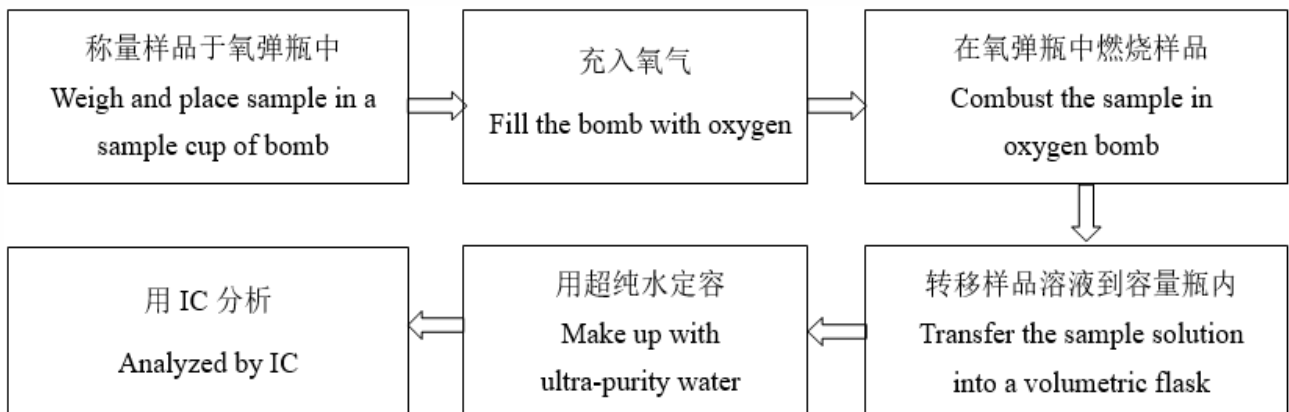
5. 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



6. 氟(F), 氯(Cl), 溴(Br), 碘(I)

Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



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样品图片 Photo(s) of the sample(s)



声明 Statement:

1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照ILAC-G8:09/2019 / CNAS-GL015:2022使用简单接受(w=0)二元判定规则进行符合性判定;
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经CTI书面同意, 不得部分复制本报告;
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报告结束

*** End of report ***

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报告抬头公司名称 湖南艾迪奥电子科技有限公司
Company Name HUNAN IDEA ELECTRONIC TECHNOLOGY CO., LTD
shown on Report
地 址 湖南省益阳高新技术产业区东部新区
Address THE EAST NEW DISTRICT HIGH-TECH INDUSTRIAL YIYANG CITY HUNAN PROVINCE OF CHINA

以下测试之样品及样品信息由申请者提供并确认
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 Mn-Zn Ferrite Core
Sample Name Mn-Zn Ferrite Core
样品接收日期 2025.02.08
Sample Received Date Feb. 8, 2025
样品检测日期 2025.02.08-2025.02.15
Testing Period Feb. 8, 2025 to Feb. 15, 2025

检测要求/检测依据/检测结果 请参见下页。
Test Requested/Test Method/Test Result(s) Please refer to the following page(s).

摘要 根据分析结果, 所提交样品中 SVHC 浓度 $\leq 0.1\%$ (w/w)。
Summary According to the analytical results, concentrations of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample(s).



批准
Approved by 方理松
方理松
授权签字人 Lab Authorized Signatory

日期 2025.02.15
Date

No. R177732083

广东省深圳市宝安区新安街道兴东社区华测检测大楼

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

检测报告

Test Report

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检测要求

- 1.根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 247 种高关注物质(SVHC)进行筛选测试。
- 2.根据客户要求, 对由欧盟成员国向欧盟化学管理局(ECHA)所提交的 1 种于 2021 年 6 月 1 日公布意向成为法规(EC) No 1907/2006(REACH)中高关注度物质(SVHC)的候选物质进行筛选测试。
- 3.根据客户要求, 对 6 种潜在意向 SVHC 物质进行筛选测试。

Test Requested

- 1.As specified by client, to screen the 247 substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 2.As specified by client, to screen the 1 substance published on June 1st 2021 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation (EC) No1907/2006 of REACH in the submitted sample(s).
- 3.As specified by client, to screen the 6 potential intentional substances for identification of SVHC in the submitted sample(s).

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检测结果1 Test Result(s) 1

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	浓度 Concentration (%)	RL (%)
				002	
I	4	二氯化钴 Cobalt dichloride*	7646-79-9	N.D.* ¹	0.01
IV	37	硫酸钴 Cobalt(II) sulphate*	10124-43-3	N.D.* ¹	0.01
IV	38	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	N.D.* ¹	0.01
IV	39	碳酸钴 Cobalt(II) carbonate*	513-79-1	N.D.* ¹	0.01
IV	40	醋酸钴 Cobalt(II) diacetate*	71-48-7	N.D.* ¹	0.01
-	-	其他 SVHC 物质 (见候选清单) Other tested SVHC (See the candidate list)	-	N.D.	-

检测结果 2 Test Result(s) 2

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	浓度 Concentration (%)	RL (%)
				002	
-	-	所有意向/潜在意向 SVHC 物质 (见意向/潜在意向 SVHC 物质清单) All tested intention/potential intention for identification of SVHC (See the list of intention/potential intention for identification of SVHC)	-	N.D.	-

检测依据 Test Method:

参考 US EPA 3052:1996, US EPA 3050B:1996, US EPA 3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, 内部方法进行样品预处理。
Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, In house method for sample pretreatment.
采用 ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD 及 LC-MS-MS 分析。
Analyzed by ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD and LC-MS-MS.

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	002	深灰色固体 Dark grey solid

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备注 Remark:

1. 结果仅显示检出的 SVHC，低于 RL 的 SVHC 没有列出。所有测试的 SVHC 见下页的 SVHC/意向/潜在意向 SVHC 清单。The table of tested result(s) only shows detected SVHC, and SVHC that below RL are not reported. Please refer to the List of SVHC/intention/potential intention for identification of SVHC on next pages.
2. w/w % = 重量百分比 weight by weight; 0.1% = 1000mg/kg = 1000ppm
3. N.D. = 未检出 Not Detected (< RL)
4. RL = 报告检出限 Report Limit (当浓度值 \geq RL 时显示数据。RL 不同于法规限值。Concentration value will be shown if it \geq RL. RL is not regulatory limit.)
5. ※ = 意向 SVHC (Intention for identification of SVHC)
6. ⚠ = 潜在意向 SVHC (Potential intention for identification of SVHC)
7. *:该物质的浓度值是由物质中的特征元素测试结果换算而来。Concentration value of the substance by the conversion from the test results of certain elements.

三丁基氧化锡(TBTO)、二丁基二氯化锡(DBTC)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE) 和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料、双(乙酰丙酮酸)二丁基锡、[二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数]的浓度值是由其特定化合物(三丁基锡(TBT)、二丁基锡(DBT)、二辛基锡(DOT)、单辛基锡(MOT))的结果换算而来。

Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE), Dibutylbis(pentane-2,4-dionato-O,O')tin, [Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety] by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).

8. **:在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
9. ***:C.I.:颜料索引号 Colour Index
10. ****:蒸馏所分离出来的轻油部分 Light fractions from distillation
11. *****:四硼酸钠, 无水和四硼酸钠, 水合物的浓度均由四硼酸钠浓度表示, 没有考虑结晶水。过硼酸钠, 水合物; 过硼酸钠盐和过硼酸钠, 无水的浓度均由过硼酸钠浓度表示, 没有考虑结晶水。Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.

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12. [▲]: 甲醛与苯胺的低聚物的浓度值是由其特定化合物(2,4-二氨基二苯甲烷、4,4'-二氨基二苯基甲烷、2,2-二氨基二苯甲烷)的结果换算而来。Concentration value of Formaldehyde, oligomeric reaction products with aniline by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'- Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
13. ^①: 由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。当其测试结果 $\geq 0.1\%$ w/w 时, 对于该物质是否存在于样品中需核查相应物料的 MSDS 或向供应商进行确认。In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
14. ^②: 由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要组成化合物的测试结果是基于特征元素的浓度换算而来。In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
15. *¹: 测试样品中含有钴。根据客户声明, 钴不以二氯化钴; 硫酸钴; 硝酸钴; 碳酸钴; 醋酸钴物质存在。The sample contains Cobalt. According to the declaration of the client, the element Cobalt in the submitted sample does not exist in the form of Cobalt dichloride; Cobalt(II) sulphate; Cobalt(II) dinitrate; Cobalt(II) carbonate; Cobalt(II) diacetate.

注释 Note:

本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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SVHC 候选清单 Candidate List of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
I	1	蒽 Anthracene	120-12-7	0.005
I	2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	0.005
I	3	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	0.005
I	4	二氯化钴 Cobalt dichloride*	7646-79-9	0.01
I	5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	0.01
I	6	三氧化二砷 Diarsenic trioxide*	1327-53-3	0.01
I	7	重铬酸钠 Sodium dichromate*	7789-12-0 10588-01-9	0.01
I	8	二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.005
I	9	邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.005
I	10	六溴环十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.005
I	11	短链氯化石蜡 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	0.01
I	12	三丁基氧化锡 Bis(tributyltin) oxide (TBTO)*	56-35-9	0.01
I	13	砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	0.01
I	14	邻苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	0.005
I	15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	0.01
II	16	①蒽油 Anthracene oil	90640-80-5	0.05
II	17	①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. lights****	91995-17-4	0.05
II	18	①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.05
II	19	①蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	0.05
II	20	①蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	0.05
II	21	①煤焦油沥青,高温 Pitch, coal tar, high-temp.	65996-93-2	0.05
II	22	丙烯酰胺 Acrylamide	79-06-1	0.01
II	23	2,4-二硝基甲苯 2,4-dinitrotoluene	121-14-2	0.01
II	24	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	0.005
II	25	②铬酸铅 Lead chromate	7758-97-6	0.05
II	26	②铅铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	0.05
II	27	②铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	0.05
II	28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	0.01
III	29	三氯乙烯 Trichloroethylene	79-01-6	0.005
III	30	硼酸 Boric acid*	10043-35-3 11113-50-1	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
III	31	④四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	0.01
III	32	④四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	0.01
III	33	铬酸钠 Sodium chromate*	7775-11-3	0.01
III	34	铬酸钾 Potassium chromate*	7789-00-6	0.01
III	35	重铬酸铵 Ammonium dichromate*	7789-09-5	0.01
III	36	重铬酸钾 Potassium dichromate*	7778-50-9	0.01
IV	37	硫酸钴 Cobalt(II) sulphate*	10124-43-3	0.01
IV	38	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	0.01
IV	39	碳酸钴 Cobalt(II) carbonate*	513-79-1	0.01
IV	40	醋酸钴 Cobalt(II) diacetate*	71-48-7	0.01
IV	41	乙二醇单甲醚 2-methoxyethanol	109-86-4	0.005
IV	42	乙二醇单乙醚 2-ethoxyethanol	110-80-5	0.005
IV	43	三氧化铬 Chromium trioxide*	1333-82-0	0.01
IV	44	①铬酸及其低聚物、重铬酸及其低聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	0.01
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	0.01
V	46	铬酸锶 Strontium chromate*	7789-06-2	0.01
V	47	①1,2-苯二酸-二(C7-11 支链与直链)烷基(醇)酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.01
V	48	肼 Hydrazine	7803-57-8 302-01-2	0.01
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone (NMP)	872-50-4	0.01
V	50	1, 2, 3-三氯丙烷 1,2,3-trichloropropane	96-18-4	0.01
V	51	①邻苯二甲酸二C6-8支链烷基酯(C7富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.01
VI	52	铬酸铬 Dichromium tris(chromate)*	24613-89-6	0.01
VI	53	氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.01
VI	54	氢氧化铬酸锌 Pentazinc chromate octahydroxide*	49663-84-5	0.01
VI	55	②硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF)**	-	0.05
VI	56	②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	0.05
VI	57	①甲醛与苯胺的低聚物 Formaldehyde, oligomeric reaction products with aniline^	25214-70-4	0.01
VI	58	邻苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	0.005
VI	59	2-甲氧基苯胺(邻甲氧基苯胺) 2-Methoxyaniline (o-Anisidine)	90-04-0	0.005
VI	60	4-(1,1,3,3-四甲基丁基)苯酚 (别名: 对特辛基苯酚) 4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.005
VI	61	1,2-二氯乙烷 1,2-dichloroethane	107-06-2	0.005
VI	62	双(2-甲氧基乙基)醚(别名: 二乙二醇二甲醚) Bis(2-methoxyethyl) ether	111-96-6	0.005

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VI	63	砷酸 Arsenic acid*	7778-39-4	0.01
VI	64	砷酸钙 Calcium arsenate*	7778-44-1	0.01
VI	65	砷酸铅 Trilead diarsenate*	3687-31-8	0.01
VI	66	N,N-二甲基乙酰胺 N,N-dimethylacetamide (DMAC)	127-19-5	0.005
VI	67	4,4'-亚甲基双(2-氯苯胺) 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.005
VI	68	酚酞 Phenolphthalein	77-09-8	0.005
VI	69	叠氮化铅 Lead diazide, Lead azide*	13424-46-9	0.01
VI	70	2,4,6-三硝基间苯二酚铅(别名: 收敛酸铅) Lead styphnate*	15245-44-0	0.01
VI	71	苦味酸铅 Lead dipicrate*	6477-64-1	0.01
VII	72	1,2-二(2-甲氧基乙氧基)乙烷 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	0.01
VII	73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01
VII	74	三氧化二硼 Diboron trioxide*	1303-86-2	0.01
VII	75	甲酰胺 Formamide	75-12-7	0.01
VII	76	甲基磺酸铅 Lead(II) bis(methanesulfonate)*	17570-76-2	0.01
VII	77	异氰尿酸三缩水甘油酯 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01
VII	78	异氰脲酸 β-三缩水甘油酯 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.01
VII	79	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	0.01
VII	80	4,4'-(对二甲氨基)二苯基甲烷(米氏碱) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.01
VII	81	C.I.碱性紫 3 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	0.01
VII	82	C.I.碱性蓝 26 [4-[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)***	2580-56-5	0.01
VII	83	C.I.溶剂蓝 4 α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	0.01
VII	84	α,α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	0.01
VIII	85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.05

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VIII	86	①4-壬基酚, 分支或线性的壬基酚, 包括含有 9 个碳烷基链的所有独立的同分异构体和所有含有线性或分支 9 个碳烷基链的 UVCB 物质 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
VIII	87	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))(ADCA)	123-77-3	0.05
VIII	88	对特辛基苯酚乙氧基醚 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.05
VIII	89	全氟十一烷酸 Henicosafluoroundecanoic acid	2058-94-8	0.05
VIII	90	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	0.05
VIII	91	六氢邻苯二甲酸酐, 顺式-六氢邻苯二甲酸酐, 反式-六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	0.05
VIII	92	甲基六氢苯酐, 4-甲基六氢苯酐, 1-甲基六氢化邻苯二甲酸酐, 3-甲基六氢苯二甲酯酐 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.05
VIII	93	全氟十四酸 Heptacosafuorotetradecanoic acid	376-06-7	0.05
VIII	94	邻苯二甲酸二异戊酯 Diisopentyl phthalate (DIPP)	605-50-5	0.05
VIII	95	①支链和直链 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.05
VIII	96	邻苯二甲酸正戊基异戊基酯 n-pentyl-isopentylphthalate	776297-69-9	0.05
VIII	97	甲氧基乙酸 Methoxyacetic acid	625-45-6	0.05
VIII	98	全氟十二烷酸 Tricosafuorododecanoic acid	307-55-1	0.05
VIII	99	乙二醇二乙醚 1,2-diethoxyethane	629-14-1	0.05
VIII	100	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.05
VIII	101	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.05
VIII	102	N-甲基乙酰胺 N-methylacetamide	79-16-3	0.05
VIII	103	氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate*	12065-90-6	0.01
VIII	104	4-氨基联苯 Biphenyl-4-ylamine	92-67-1	0.05
VIII	105	地乐酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.05
VIII	106	双(十八烷基)二氧代三铅 Dioxobis(stearato)trilead*	12578-12-0	0.01
VIII	107	硝酸铅 Lead dinitrate*	10099-74-8	0.01
VIII	108	三碱式硫酸铅 Tetralead trioxide sulphate*	12202-17-4	0.01
VIII	109	氧化铅 Lead monoxide (lead oxide)*	1317-36-8	0.01

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VIII	110	钛酸铅 Lead titanium trioxide*	12060-00-3	0.01
VIII	111	4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	838-88-0	0.05
VIII	112	碱式乙酸铅 Acetic acid, lead salt, basic*	51404-69-4	0.01
VIII	113	硫酸二甲酯 Dimethyl sulphate	77-78-1	0.05
VIII	114	呋喃 Furan	110-00-9	0.05
VIII	115	颜料黄 41 Pyrochlore, antimony lead yellow*	8012-00-8	0.01
VIII	116	四乙基铅 Tetraethyllead*	78-00-2	0.01
VIII	117	二盐基邻苯二甲酸铅[Phthalato(2-)]dioxotrilead*	69011-06-9	0.01
VIII	118	硫酸二乙酯 Diethyl sulphate	64-67-5	0.05
VIII	119	氨基氰铅盐 Lead cyanamidate*	20837-86-9	0.01
VIII	120	掺杂铅的硅酸钡 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	0.01
VIII	121	磷酸氧化铅 Trilead dioxide phosphonate*	12141-20-7	0.01
VIII	122	邻甲基苯胺 o-Toluidine	95-53-4	0.05
VIII	123	邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	0.05
VIII	124	4-对氨基偶氮苯 4-aminoazobenzene	60-09-3	0.05
VIII	125	6-甲氧基-间甲苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.05
VIII	126	二丁基二氯化锡 Dibutyltin dichloride (DBTC)*	683-18-1	0.05
VIII	127	钛酸铅锆 Lead titanium zirconium oxide*	12626-81-2	0.01
VIII	128	环氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	0.05
VIII	129	1-溴代正丙烷 1-bromopropane (n-propyl bromide)	106-94-5	0.05
VIII	130	碱式碳酸铅 Trilead bis(carbonate) dihydroxide*	1319-46-6	0.01
VIII	131	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts*	91031-62-8	0.01
VIII	132	四氧化三铅 Orange lead (lead tetroxide)*	1314-41-6	0.01
VIII	133	二碱式亚硫酸铅(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	0.01
VIII	134	4,4'-二氨基二苯醚及其盐 4,4'-oxydianiline and its salts	101-80-4	0.05
VIII	135	碱式硫酸铅 Lead oxide sulfate*	12036-76-9	0.01
VIII	136	四氟硼酸铅 Lead bis(tetrafluoroborate)*	13814-96-5	0.01
VIII	137	硅酸铅 Silicic acid, lead salt*	11120-22-2	0.01
VIII	138	N,N-二甲基甲酰胺 N,N-dimethylformamide	68-12-2	0.05
IX	139	镉 Cadmium	7440-43-9	0.01
IX	140	氧化镉 Cadmium oxide*	1306-19-0	0.01
IX	141	邻苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	0.01
IX	142	②乙氧基化的支链和直链的 4-壬基酚（直链和/或支链的具有 9 个碳原子的烷基链共价键合在 4 位的乙氧基酚，囊括了 UVCB 和定义明确的物质，聚合物及同系物，其中包括任何单独的异构体和/或它们的组合）4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.05
IX	143	全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01
IX	144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01

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X	145	^① 磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	0.01
X	146	C.I.直接黑 38 Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)***	1937-37-7	0.01
X	147	邻苯二甲酸二己酯 Dihexyl phthalate	84-75-3	0.01
X	148	硫化镉 Cadmium sulphide*	1306-23-6	0.01
X	149	C.I.直接红 28 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	0.01
X	150	醋酸铅(II) Lead di(acetate)*	301-04-2	0.01
X	151	1,2-亚乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.01
XI	152	^① 邻苯二甲酸二己酯, 直链和支链 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01
XI	153	氯化镉 Cadmium chloride*	10108-64-2	0.01
XI	154	^② 过硼酸钠, 水合物; 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	0.01
XI	155	^② 过硼酸钠, 无水 Sodium peroxometaborate*****	7632-04-4	0.01
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01
XII	157	2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01
XII	158	二正辛基-双(巯乙酸2-乙基己酯)锡 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	0.05
XII	159	氟化镉 Cadmium fluoride*	7790-79-6	0.01
XII	160	硫酸镉 Cadmium sulphate*	10124-36-4 31119-53-6	0.01
XII	161	^① 二正辛基-双(巯乙酸2-乙基己酯)锡(DOTE)和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料 Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)*	-	0.05
XIII	162	^① 1,2-苯二羧酸, 二-C6-10-烷基酯; (葵基, 己基, 辛基)酯与1,2-苯二甲酸的复合物, 其邻苯二甲酸二己酯含量≥0.3% (EC No. 201-559-5) 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	0.05

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XIII	163	①5-仲丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合] (卡拉花醛及其异构体以及它们的混合物) 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.05
XIV	164	硝基苯 Nitrobenzene	98-95-3	0.01
XIV	165	2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01
XIV	166	2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01
XIV	167	1,3-丙烷磺内酯 1,3-propanesultone	1120-71-4	0.01
XIV	168	全氟壬酸及其钠和铵盐 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01
XV	169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01
XVI	170	双酚 A 4,4'-isopropylidenediphenol (bisphenol A) (BPA)	80-05-7	0.01
XVI	171	全氟癸酸(PFDA)及其钠盐和铵盐 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.01
XVI	172	4-(1,1-二甲基丙基)苯酚 (别名: 对叔戊基苯酚) p-(1,1-dimethylpropyl)phenol	80-46-6	0.01
XVI	173	①支链与直链的 4-庚基酚(直链和/或支链的具有 7 个碳原子的烷基链共价键在 4 位的苯酚, 囊括了 UVCB 和定义明确的物质, 其中包括任何单独异构体和/或它们的组合) 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
XVII	174	全氟己基磺酸及其盐 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.0005
XVIII	175	得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	0.01
XVIII	176	苯并[a]蒽 Benzo[a]anthracene	56-55-3	0.01
XVIII	177	硝酸镉 Cadmium nitrate*	10325-94-7	0.01
XVIII	178	碳酸镉 Cadmium carbonate*	513-78-0	0.01
XVIII	179	氢氧化镉 Cadmium hydroxide*	21041-95-2	0.01
XVIII	180	蒎 Chrysene	218-01-9	0.01

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XVIII	181	^① 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和4-庚基苯酚的支链和直链 (RP-HP)的反应产物[4-庚基苯酚, 支链和直链含量≥0.1% w/w] Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]	-	0.05
XIX	182	八甲基环四硅氧烷 Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01
XIX	183	十甲基环五硅氧烷Decamethylcyclopentasiloxane (D5)	541-02-6	0.01
XIX	184	十二甲基环六硅氧烷 Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01
XIX	185	铅 Lead	7439-92-1	0.01
XIX	186	八硼酸二钠 Disodium octaborate*	12008-41-2	0.01
XIX	187	苯并(g,h,i)芘 Benzo[ghi]perylene	191-24-2	0.01
XIX	188	^① 氢化三联苯 Terphenyl, hydrogenated	61788-32-7	0.01
XIX	189	乙二胺 Ethylenediamine (EDA)	107-15-3	0.01
XIX	190	偏苯三酸酐 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.01
XIX	191	邻苯二甲酸二环己酯Dicyclohexyl phthalate (DCHP)	84-61-7	0.01
XX	192	4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01
XX	193	苯并[k]荧蒹 Benzo[k]fluoranthene	207-08-9	0.01
XX	194	荧蒹 Fluoranthene	206-44-0	0.01
XX	195	菲 Phenanthrene	85-01-8	0.01
XX	196	芘 Pyrene	129-00-0	0.01
XX	197	1,7,7-三甲基-3-(苯亚甲基)二环[2,2,1]庚-2-酮 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (3-BC)	15087-24-8	0.01
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(HFPO-DA) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01
XXI	199	乙二醇乙醚乙酸酯2-methoxyethyl acetate	110-49-6	0.01
XXI	200	4-叔丁基苯酚4-tert-butylphenol	98-54-4	0.01
XXI	201	^① 三(4-壬基苯基, 支链和直链)亚磷酸酯 Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.01
XXII	202	2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01
XXII	204	邻苯二甲酸二异己酯 Diisohexyl phthalate	71850-09-4	0.01
XXII	205	全氟丁烷磺酸(PFBS)及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01
XXIII	206	1-乙烯基咪唑 1-vinylimidazole	1072-63-5	0.01
XXIII	207	2-甲基咪唑 2-methylimidazole	693-98-1	0.01
XXIII	208	对羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate	94-26-8	0.01
XXIII	209	双(乙酰丙酮酸)二丁基锡 Dibutylbis(pentane-2,4-dionato-O,O')tin*	22673-19-4	0.05

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XXIV	210	四乙二醇二甲醚 bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.01
XXIV	211	二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数 Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety*	-	0.05
XXV	212	1,4-二恶烷 1,4-dioxane	123-91-1	0.01
XXV	213	2,2-双(溴甲基)-1,3-丙二醇 三溴新戊醇/3-溴-2,2-二溴乙基丙醇 2,3-二溴丙醇 2,2-bis(bromomethyl) propane-1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.01
XXV	214	2-(4-叔丁基苄基)丙醛及其立体异构体 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01
XXV	215	2,2-二(4-羟基苯基)丁烷(双酚 B) 4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.01
XXV	216	戊二醛 Glutaral	111-30-8	0.01
XXV	217	^① 中链氯化石蜡(UVCB 物质, 由≥80%的直链氯代烷烃组成, 碳链长度在 C14 到 C17 之间) Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01
XXV	218	硼酸钠盐 Orthoboric acid, sodium salt*	13840-56-7	0.01
XXV	219	^① 烷基酚, 碳链(C12 为主, 直链或支链)主要在对位, 包括其任何单个异构体或组合 Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.01
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环[2.2.1]庚-2-酮, 包括任何单独的异构体和/或其组合 (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.01
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.01
XXVI	222	S-(三环[5.2.1.0 ^{2,6}]癸-3-烯-8(或 9)-基)O-(异丙基或异丁基或 2-乙基己基)O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯 S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷 tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01
XXVII	224	N-羟甲基丙烯酰胺 N-(hydroxymethyl)acrylamide	924-42-5	0.01

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XXVIII	225	1,2-二(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbis(oxy)]bis [2,4,6-tribromobenzene]	37853-59-1	0.01
XXVIII	226	四溴双酚 A 2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	0.01
XXVIII	227	双酚 S 4,4'-sulphonyldiphenol (BPS)	80-09-1	0.01
XXVIII	228	偏硼酸钡 Barium diboron tetraoxide*	13701-59-2	0.01
XXVIII	229	3,4,5,6-四溴-1,2-苯二羧酸双(2-乙基己基)酯, 包括任何单独的异构体和/或其组合 Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.01
XXVIII	230	4-羟基苯甲酸 2-甲基丙酯 Isobutyl 4-hydroxybenzoate	4247-02-3	0.01
XXVIII	231	三聚氰胺 Melamine	108-78-1	0.05
XXVIII	232	全氟庚酸及其盐 Perfluoroheptanoic acid and its salts	-	0.01
XXVIII	233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟烷-4-(七氟丙基)吗啉的反应物料 Reaction mass of 2,2,3,3,5,5,6,6-octafluoro- 4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.05
XXIX	234	二苯基(2,4,6-三甲基苯甲酰基)氧化膦 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01
XXIX	235	4,4'-二氯二苯砜 Bis(4-chlorophenyl) sulphone	80-07-9	0.01
XXX	236	2,4,6-三叔丁基苯酚 2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	0.01
XXX	237	2-[2-羟基-5-(1,1,3,3-四甲丁基)苯基]苯并三唑 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.01
XXX	238	2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苄基)-1-丁酮 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.01
XXX	239	2-(5-氯-2H-苯三唑-2-基)-6-(1,1-二甲基乙基)-4-甲基苯酚 Bumetrizole (UV-326)	3896-11-5	0.01
XXX	240	^① 2-苯基丙烯与苯酚的低聚和烷基化反应产物 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.01
XXXI	241	过氧化二异丙苯 Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.01
XXXI	242	磷酸三苯酯 Triphenyl phosphate	115-86-6	0.01
XXXII	243	6-[(C10-C13)-烷基-(支链, 不饱和)-2,5-二氧吡咯烷-1-基]己酸 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.01
XXXII	244	硫代磷酸(O,O,O-三苯基)酯 O,O,O-triphenyl phosphorothioate	597-82-0	0.01
XXXII	245	八甲基三硅氧烷 Octamethyltrisiloxane	107-51-7	0.01
XXXII	246	全氟三丙胺 Perfluamine	338-83-0	0.01
XXXII	247	三苯基硫代磷酸与叔丁基苯衍生物的反应物料 Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.01

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意向/潜在意向 SVHC 物质清单 List of intention/potential intention for identification of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
※	1	间苯二酚 Resorcinol	108-46-3	0.01
✱	2	六甲基二硅氧烷 Hexamethyldisiloxane	107-46-0	0.01
✱	3	十二甲基五硅氧烷 Dodecamethylpentasiloxane	141-63-9	0.01
✱	4	十甲基四硅氧烷 Decamethyltetrasiloxane	141-62-8	0.01
✱	5	1,1,1,3,5,5,5-七甲基-3-[(三甲基甲硅烷基)氧基]三硅氧烷 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.01
✱	6	活性棕 51 Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)-1,3,5-triazine-2-yl}amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.01
✱	7	甲醛 Formaldehyde	50-00-0	0.01

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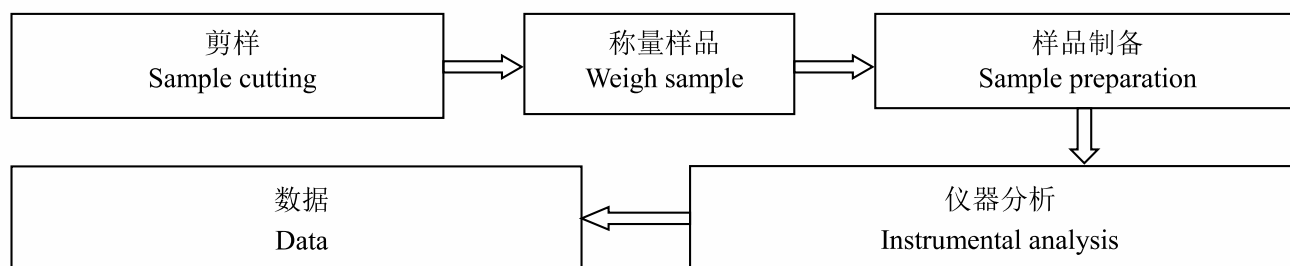
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附加信息 Appendix:

- 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1%时，物品供应方需履行相关信息传递义务：
Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 应消费者请求，物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
- 根据欧盟 REACH 法规（编号 1907/2006）第 31 条款及附件 2 之规定，提供高度关注物质的物质类产品供应方，应免费提供接收方该物质的安全数据表。The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
- 根据欧盟 REACH 法规（编号 1907/2006）第 31、32 条款及附件 2 之规定，提供含有高度关注物质的混合物产品供应方需传递相关信息：
The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 如果混合物产品按照 1999/45/EC 被判定为危险品时，供应方应免费提供产品的安全数据表。
Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 如果混合物产品按照 1999/45/EC 判定并非危险品，但是任一高度关注物质在非气体混合物中质量分数超过 0.1%或在气体混合物中体积分数超过 0.2%，供应方也应免费提供产品的安全数据表。
Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

检测流程 Test Process



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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定;
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;
Without written approval of CTI, this report can't be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异, 以中文为准。
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

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报告抬头公司名称 湖南艾迪奥电子科技有限公司
Company Name HUNAN IDEA ELECTRONIC TECHNOLOGY CO., LTD
shown on Report
地 址 湖南省益阳高新技术产业区东部新区
Address THE EAST NEW DISTRICT HIGH-TECH INDUSTRIAL YIYANG CITY HUNAN PROVINCE OF CHINA

以下测试之样品及样品信息由申请者提供并确认
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 Ni-Zn Ferrite Core
Sample Name Ni-Zn Ferrite Core
样品接收日期 2025.02.08
Sample Received Date Feb. 8, 2025
样品检测日期 2025.02.08-2025.02.15
Testing Period Feb. 8, 2025 to Feb. 15, 2025

检测要求/检测依据/检测结果 请参见下页。
Test Requested/Test Method/Test Result(s) Please refer to the following page(s).

摘要 根据分析结果, 所提交样品中 SVHC 浓度 $\leq 0.1\%$ (w/w)。
Summary According to the analytical results, concentrations of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample(s).



批准
Approved by
方理松
方理松
授权签字人 Lab Authorized
Signatory

日期
Date
2025.02.15

No. R177732083

广东省深圳市宝安区新安街道兴东社区华测检测大楼

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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检测要求

- 1.根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 247 种高关注物质(SVHC)进行筛选测试。
- 2.根据客户要求, 对由欧盟成员国向欧盟化学管理局(ECHA)所提交的 1 种于 2021 年 6 月 1 日公布意向成为法规(EC) No 1907/2006(REACH)中高关注度物质(SVHC)的候选物质进行筛选测试。
- 3.根据客户要求, 对 6 种潜在意向 SVHC 物质进行筛选测试。

Test Requested

- 1.As specified by client, to screen the 247 substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 2.As specified by client, to screen the 1 substance published on June 1st 2021 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation (EC) No1907/2006 of REACH in the submitted sample(s).
- 3.As specified by client, to screen the 6 potential intentional substances for identification of SVHC in the submitted sample(s).

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检测结果1 Test Result(s) 1

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	浓度 Concentration (%)	RL (%)
				001	
-	-	所有 SVHC 物质 (见候选清单) All tested SVHC (See the candidate list)	-	N.D.	-

检测结果 2 Test Result(s) 2

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	浓度 Concentration (%)	RL (%)
				001	
-	-	所有意向/潜在意向 SVHC 物质 (见意向/潜在意向 SVHC 物质清单) All tested intention/potential intention for identification of SVHC (See the list of intention/potential intention for identification of SVHC)	-	N.D.	-

检测依据 Test Method:

参考 US EPA 3052:1996, US EPA 3050B:1996, US EPA 3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, 内部方法进行样品预处理。
Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, In house method for sample pretreatment.
采用 ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD 及 LC-MS-MS 分析。
Analyzed by ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD and LC-MS-MS.

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	001	深灰色固体 Dark grey solid

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备注 Remark:

1. 结果仅显示检出的 SVHC，低于 RL 的 SVHC 没有列出。所有测试的 SVHC 见下页的 SVHC/意向/潜在意向 SVHC 清单。The table of tested result(s) only shows detected SVHC, and SVHC that below RL are not reported. Please refer to the List of SVHC/intention/potential intention for identification of SVHC on next pages.
2. w/w % = 重量百分比 weight by weight; 0.1% = 1000mg/kg = 1000ppm
3. N.D. = 未检出 Not Detected (< RL)
4. RL = 报告检出限 Report Limit (当浓度值 \geq RL 时显示数据。RL 不同于法规限值。Concentration value will be shown if it \geq RL. RL is not regulatory limit.)
5. ※ = 意向 SVHC (Intention for identification of SVHC)
6. ⚠ = 潜在意向 SVHC (Potential intention for identification of SVHC)
7. *:该物质的浓度值是由物质中的特征元素测试结果换算而来。Concentration value of the substance by the conversion from the test results of certain elements.

三丁基氧化锡(TBTO)、二丁基二氯化锡(DBTC)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)、二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE) 和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料、双(乙酰丙酮酸)二丁基锡、[二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数]的浓度值是由其特定化合物(三丁基锡(TBT)、二丁基锡(DBT)、二辛基锡(DOT)、单辛基锡(MOT))的结果换算而来。

Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE), Dibutylbis(pentane-2,4-dionato-O,O')tin, [Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety] by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).

8. **:在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation(Regulation (EC) No 1272/2008).
9. ***:C.I.:颜料索引号 Colour Index
10. ****:蒸馏所分离出来的轻油部分 Light fractions from distillation
11. *****:四硼酸钠, 无水和四硼酸钠, 水合物的浓度均由四硼酸钠浓度表示, 没有考虑结晶水。过硼酸钠, 水合物; 过硼酸钠盐和过硼酸钠, 无水的浓度均由过硼酸钠浓度表示, 没有考虑结晶水。Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.

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12. [▲]: 甲醛与苯胺的低聚物的浓度值是由其特定化合物(2,4-二氨基二苯甲烷、4,4'-二氨基二苯基甲烷、2,2-二氨基二苯甲烷)的结果换算而来。Concentration value of Formaldehyde, oligomeric reaction products with aniline by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'- Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
13. ^①: 由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。当其测试结果 $\geq 0.1\%$ w/w 时, 对于该物质是否存在于样品中需核查相应物料的 MSDS 或向供应商进行确认。In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
14. ^②: 由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要组成化合物的测试结果是基于特征元素的浓度换算而来。In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.

注释 Note:

本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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SVHC 候选清单 Candidate List of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
I	1	蒽 Anthracene	120-12-7	0.005
I	2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	0.005
I	3	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2	0.005
I	4	二氯化钴 Cobalt dichloride*	7646-79-9	0.01
I	5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	0.01
I	6	三氧化二砷 Diarsenic trioxide*	1327-53-3	0.01
I	7	重铬酸钠 Sodium dichromate*	7789-12-0 10588-01-9	0.01
I	8	二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.005
I	9	邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	0.005
I	10	六溴环十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.005
I	11	短链氯化石蜡 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	0.01
I	12	三丁基氧化锡 Bis(tributyltin) oxide (TBTO)*	56-35-9	0.01
I	13	砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	0.01
I	14	邻苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	0.005
I	15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	0.01
II	16	①蒽油 Anthracene oil	90640-80-5	0.05
II	17	①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. lights****	91995-17-4	0.05
II	18	①蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.05
II	19	①蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	0.05
II	20	①蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	0.05
II	21	①煤焦油沥青,高温 Pitch, coal tar, high-temp.	65996-93-2	0.05
II	22	丙烯酰胺 Acrylamide	79-06-1	0.01
II	23	2,4-二硝基甲苯 2,4-dinitrotoluene	121-14-2	0.01
II	24	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	0.005
II	25	②铬酸铅 Lead chromate	7758-97-6	0.05
II	26	②铅铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	0.05
II	27	②铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	0.05
II	28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	0.01
III	29	三氯乙烯 Trichloroethylene	79-01-6	0.005
III	30	硼酸 Boric acid*	10043-35-3 11113-50-1	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
III	31	④四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	0.01
III	32	④四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	0.01
III	33	铬酸钠 Sodium chromate*	7775-11-3	0.01
III	34	铬酸钾 Potassium chromate*	7789-00-6	0.01
III	35	重铬酸铵 Ammonium dichromate*	7789-09-5	0.01
III	36	重铬酸钾 Potassium dichromate*	7778-50-9	0.01
IV	37	硫酸钴 Cobalt(II) sulphate*	10124-43-3	0.01
IV	38	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	0.01
IV	39	碳酸钴 Cobalt(II) carbonate*	513-79-1	0.01
IV	40	醋酸钴 Cobalt(II) diacetate*	71-48-7	0.01
IV	41	乙二醇单甲醚 2-methoxyethanol	109-86-4	0.005
IV	42	乙二醇单乙醚 2-ethoxyethanol	110-80-5	0.005
IV	43	三氧化铬 Chromium trioxide*	1333-82-0	0.01
IV	44	①铬酸及其低聚物、重铬酸及其低聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	0.01
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	0.01
V	46	铬酸锶 Strontium chromate*	7789-06-2	0.01
V	47	①1,2-苯二酸-二(C7-11 支链与直链)烷基(醇)酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.01
V	48	肼 Hydrazine	7803-57-8 302-01-2	0.01
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone (NMP)	872-50-4	0.01
V	50	1, 2, 3-三氯丙烷 1,2,3-trichloropropane	96-18-4	0.01
V	51	①邻苯二甲酸二C6-8支链烷基酯(C7富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.01
VI	52	铬酸铬 Dichromium tris(chromate)*	24613-89-6	0.01
VI	53	氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.01
VI	54	氢氧化铬酸锌 Pentazinc chromate octahydroxide*	49663-84-5	0.01
VI	55	②硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF)**	-	0.05
VI	56	②氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	0.05
VI	57	①甲醛与苯胺的低聚物 Formaldehyde, oligomeric reaction products with aniline^	25214-70-4	0.01
VI	58	邻苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	0.005
VI	59	2-甲氧基苯胺(邻甲氧基苯胺) 2-Methoxyaniline (o-Anisidine)	90-04-0	0.005
VI	60	4-(1,1,3,3-四甲基丁基)苯酚 (别名: 对特辛基苯酚) 4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.005
VI	61	1,2-二氯乙烷 1,2-dichloroethane	107-06-2	0.005
VI	62	双(2-甲氧基乙基)醚(别名: 二乙二醇二甲醚) Bis(2-methoxyethyl) ether	111-96-6	0.005

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VI	63	砷酸 Arsenic acid*	7778-39-4	0.01
VI	64	砷酸钙 Calcium arsenate*	7778-44-1	0.01
VI	65	砷酸铅 Trilead diarsenate*	3687-31-8	0.01
VI	66	N,N-二甲基乙酰胺 N,N-dimethylacetamide (DMAC)	127-19-5	0.005
VI	67	4,4'-亚甲基双(2-氯苯胺) 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.005
VI	68	酚酞 Phenolphthalein	77-09-8	0.005
VI	69	叠氮化铅 Lead diazide, Lead azide*	13424-46-9	0.01
VI	70	2,4,6-三硝基间苯二酚铅(别名: 收敛酸铅) Lead styphnate*	15245-44-0	0.01
VI	71	苦味酸铅 Lead dipicrate*	6477-64-1	0.01
VII	72	1,2-二(2-甲氧基乙氧基)乙烷 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	0.01
VII	73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01
VII	74	三氧化二硼 Diboron trioxide*	1303-86-2	0.01
VII	75	甲酰胺 Formamide	75-12-7	0.01
VII	76	甲基磺酸铅 Lead(II) bis(methanesulfonate)*	17570-76-2	0.01
VII	77	异氰尿酸三缩水甘油酯 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01
VII	78	异氰脲酸 β-三缩水甘油酯 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.01
VII	79	4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	0.01
VII	80	4,4'-(对二甲氨基)二苯基甲烷(米氏碱) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.01
VII	81	C.I.碱性紫 3 [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	0.01
VII	82	C.I.碱性蓝 26 [4-[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)***	2580-56-5	0.01
VII	83	C.I.溶剂蓝 4 α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	0.01
VII	84	α,α-二[(二甲氨基)苯基]-4-氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	0.01
VIII	85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.05

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VIII	86	①4-壬基酚, 分支或线性的壬基酚, 包括含有 9 个碳烷基链的所有独立的同分异构体和所有含有线性或分支 9 个碳烷基链的 UVCB 物质 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
VIII	87	偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))(ADCA)	123-77-3	0.05
VIII	88	对特辛基苯酚乙氧基醚 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.05
VIII	89	全氟十一烷酸 Henicosafluoroundecanoic acid	2058-94-8	0.05
VIII	90	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	0.05
VIII	91	六氢邻苯二甲酸酐, 顺式-六氢邻苯二甲酸酐, 反式-六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	0.05
VIII	92	甲基六氢苯酐, 4-甲基六氢苯酐, 1-甲基六氢化邻苯二甲酸酐, 3-甲基六氢苯二甲酯酐 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.05
VIII	93	全氟十四酸 Heptacosafuorotetradecanoic acid	376-06-7	0.05
VIII	94	邻苯二甲酸二异戊酯 Diisopentyl phthalate (DIPP)	605-50-5	0.05
VIII	95	①支链和直链 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.05
VIII	96	邻苯二甲酸正戊基异戊基酯 n-pentyl-isopentylphthalate	776297-69-9	0.05
VIII	97	甲氧基乙酸 Methoxyacetic acid	625-45-6	0.05
VIII	98	全氟十二烷酸 Tricosafuorododecanoic acid	307-55-1	0.05
VIII	99	乙二醇二乙醚 1,2-diethoxyethane	629-14-1	0.05
VIII	100	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.05
VIII	101	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.05
VIII	102	N-甲基乙酰胺 N-methylacetamide	79-16-3	0.05
VIII	103	氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate*	12065-90-6	0.01
VIII	104	4-氨基联苯 Biphenyl-4-ylamine	92-67-1	0.05
VIII	105	地乐酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.05
VIII	106	双(十八烷基)二氧代三铅 Dioxobis(stearato)trilead*	12578-12-0	0.01
VIII	107	硝酸铅 Lead dinitrate*	10099-74-8	0.01
VIII	108	三碱式硫酸铅 Tetralead trioxide sulphate*	12202-17-4	0.01
VIII	109	氧化铅 Lead monoxide (lead oxide)*	1317-36-8	0.01

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VIII	110	钛酸铅 Lead titanium trioxide*	12060-00-3	0.01
VIII	111	4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	838-88-0	0.05
VIII	112	碱式乙酸铅 Acetic acid, lead salt, basic*	51404-69-4	0.01
VIII	113	硫酸二甲酯 Dimethyl sulphate	77-78-1	0.05
VIII	114	呋喃 Furan	110-00-9	0.05
VIII	115	颜料黄 41 Pyrochlore, antimony lead yellow*	8012-00-8	0.01
VIII	116	四乙基铅 Tetraethyllead*	78-00-2	0.01
VIII	117	二盐基邻苯二甲酸铅[Phthalato(2-)]dioxotrilead*	69011-06-9	0.01
VIII	118	硫酸二乙酯 Diethyl sulphate	64-67-5	0.05
VIII	119	氨基氰铅盐 Lead cyanamidate*	20837-86-9	0.01
VIII	120	掺杂铅的硅酸钡 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	0.01
VIII	121	磷酸氧化铅 Trilead dioxide phosphonate*	12141-20-7	0.01
VIII	122	邻甲基苯胺 o-Toluidine	95-53-4	0.05
VIII	123	邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	0.05
VIII	124	4-对氨基偶氮苯 4-aminoazobenzene	60-09-3	0.05
VIII	125	6-甲氧基-间甲苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.05
VIII	126	二丁基二氯化锡 Dibutyltin dichloride (DBTC)*	683-18-1	0.05
VIII	127	钛酸铅锆 Lead titanium zirconium oxide*	12626-81-2	0.01
VIII	128	环氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	0.05
VIII	129	1-溴代正丙烷 1-bromopropane (n-propyl bromide)	106-94-5	0.05
VIII	130	碱式碳酸铅 Trilead bis(carbonate) dihydroxide*	1319-46-6	0.01
VIII	131	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts*	91031-62-8	0.01
VIII	132	四氧化三铅 Orange lead (lead tetroxide)*	1314-41-6	0.01
VIII	133	二碱式亚硫酸铅(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	0.01
VIII	134	4,4'-二氨基二苯醚及其盐 4,4'-oxydianiline and its salts	101-80-4	0.05
VIII	135	碱式硫酸铅 Lead oxide sulfate*	12036-76-9	0.01
VIII	136	四氟硼酸铅 Lead bis(tetrafluoroborate)*	13814-96-5	0.01
VIII	137	硅酸铅 Silicic acid, lead salt*	11120-22-2	0.01
VIII	138	N,N-二甲基甲酰胺 N,N-dimethylformamide	68-12-2	0.05
IX	139	镉 Cadmium	7440-43-9	0.01
IX	140	氧化镉 Cadmium oxide*	1306-19-0	0.01
IX	141	邻苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	0.01
IX	142	②乙氧基化的支链和直链的 4-壬基酚（直链和/或支链的具有 9 个碳原子的烷基链共价键合在 4 位的乙氧基酚，囊括了 UVCB 和定义明确的物质，聚合物及同系物，其中包括任何单独的异构体和/或它们的组合）4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.05
IX	143	全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01
IX	144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01

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X	145	^① 磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	0.01
X	146	C.I.直接黑 38 Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)***	1937-37-7	0.01
X	147	邻苯二甲酸二己酯 Dihexyl phthalate	84-75-3	0.01
X	148	硫化镉 Cadmium sulphide*	1306-23-6	0.01
X	149	C.I.直接红 28 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	0.01
X	150	醋酸铅(II) Lead di(acetate)*	301-04-2	0.01
X	151	1,2-亚乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.01
XI	152	^① 邻苯二甲酸二己酯, 直链和支链 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01
XI	153	氯化镉 Cadmium chloride*	10108-64-2	0.01
XI	154	^② 过硼酸钠, 水合物; 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	0.01
XI	155	^② 过硼酸钠, 无水 Sodium peroxometaborate*****	7632-04-4	0.01
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01
XII	157	2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01
XII	158	二正辛基-双(巯乙酸2-乙基己酯)锡 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	0.05
XII	159	氟化镉 Cadmium fluoride*	7790-79-6	0.01
XII	160	硫酸镉 Cadmium sulphate*	10124-36-4 31119-53-6	0.01
XII	161	^① 二正辛基-双(巯乙酸2-乙基己酯)锡(DOTE)和三(2-乙基己基巯基乙酸)辛锡(MOTE)的反应物料 Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)*	-	0.05
XIII	162	^① 1,2-苯二羧酸, 二-C6-10-烷基酯; (葵基, 己基, 辛基)酯与1,2-苯二甲酸的复合物, 其邻苯二甲酸二己酯含量≥0.3% (EC No. 201-559-5) 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	0.05

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XIII	163	①5-仲丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合] (卡拉花醛及其异构体以及它们的混合物) 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.05
XIV	164	硝基苯 Nitrobenzene	98-95-3	0.01
XIV	165	2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01
XIV	166	2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01
XIV	167	1,3-丙烷磺内酯 1,3-propanesultone	1120-71-4	0.01
XIV	168	全氟壬酸及其钠和铵盐 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01
XV	169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01
XVI	170	双酚 A 4,4'-isopropylidenediphenol (bisphenol A) (BPA)	80-05-7	0.01
XVI	171	全氟癸酸(PFDA)及其钠盐和铵盐 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.01
XVI	172	4-(1,1-二甲基丙基)苯酚 (别名: 对叔戊基苯酚) p-(1,1-dimethylpropyl)phenol	80-46-6	0.01
XVI	173	①支链与直链的 4-庚基酚(直链和/或支链的具有 7 个碳原子的烷基链共价键在 4 位的苯酚, 囊括了 UVCB 和定义明确的物质, 其中包括任何单独异构体和/或它们的组合) 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
XVII	174	全氟己基磺酸及其盐 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.0005
XVIII	175	得克隆(包括其所有反式和顺式异构体及其组合) Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	0.01
XVIII	176	苯并[a]蒽 Benzo[a]anthracene	56-55-3	0.01
XVIII	177	硝酸镉 Cadmium nitrate*	10325-94-7	0.01
XVIII	178	碳酸镉 Cadmium carbonate*	513-78-0	0.01
XVIII	179	氢氧化镉 Cadmium hydroxide*	21041-95-2	0.01
XVIII	180	蒎 Chrysene	218-01-9	0.01

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XVIII	181	^① 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和4-庚基苯酚的支链和直链 (RP-HP)的反应产物[4-庚基苯酚, 支链和直链含量≥0.1% w/w] Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]	-	0.05
XIX	182	八甲基环四硅氧烷 Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01
XIX	183	十甲基环五硅氧烷Decamethylcyclopentasiloxane (D5)	541-02-6	0.01
XIX	184	十二甲基环六硅氧烷 Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01
XIX	185	铅 Lead	7439-92-1	0.01
XIX	186	八硼酸二钠 Disodium octaborate*	12008-41-2	0.01
XIX	187	苯并(g,h,i)芘 Benzo[ghi]perylene	191-24-2	0.01
XIX	188	^① 氢化三联苯 Terphenyl, hydrogenated	61788-32-7	0.01
XIX	189	乙二胺 Ethylenediamine (EDA)	107-15-3	0.01
XIX	190	偏苯三酸酐 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.01
XIX	191	邻苯二甲酸二环己酯Dicyclohexyl phthalate (DCHP)	84-61-7	0.01
XX	192	4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01
XX	193	苯并[k]荧蒽 Benzo[k]fluoranthene	207-08-9	0.01
XX	194	荧蒽 Fluoranthene	206-44-0	0.01
XX	195	菲 Phenanthrene	85-01-8	0.01
XX	196	芘 Pyrene	129-00-0	0.01
XX	197	1,7,7-三甲基-3-(苯亚甲基)双环[2,2,1]庚-2-酮 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (3-BC)	15087-24-8	0.01
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(HFPO-DA) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01
XXI	199	乙二醇乙醚乙酸酯2-methoxyethyl acetate	110-49-6	0.01
XXI	200	4-叔丁基苯酚4-tert-butylphenol	98-54-4	0.01
XXI	201	^① 三(4-壬基苯基, 支链和直链)亚磷酸酯 Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.01
XXII	202	2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01
XXII	203	2-甲基-1-(4-甲基苯基)-2-吗啉基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01
XXII	204	邻苯二甲酸二异己酯 Diisohexyl phthalate	71850-09-4	0.01
XXII	205	全氟丁烷磺酸(PFBS)及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01
XXIII	206	1-乙烯基咪唑 1-vinylimidazole	1072-63-5	0.01
XXIII	207	2-甲基咪唑 2-methylimidazole	693-98-1	0.01
XXIII	208	对羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate	94-26-8	0.01
XXIII	209	双(乙酰丙酮酸)二丁基锡 Dibutylbis(pentane-2,4-dionato-O,O')tin*	22673-19-4	0.05

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
XXIV	210	四乙二醇二甲醚 bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.01
XXIV	211	二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数 Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety*	-	0.05
XXV	212	1,4-二恶烷 1,4-dioxane	123-91-1	0.01
XXV	213	2,2-双(溴甲基)-1,3-丙二醇 三溴新戊醇/3-溴-2,2-二溴乙基丙醇 2,3-二溴丙醇 2,2-bis(bromomethyl) propane-1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.01
XXV	214	2-(4-叔丁基苄基)丙醛及其立体异构体 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01
XXV	215	2,2-二(4-羟基苯基)丁烷(双酚 B) 4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.01
XXV	216	戊二醛 Glutaral	111-30-8	0.01
XXV	217	^① 中链氯化石蜡(UVCB 物质, 由≥80%的直链氯代烷烃组成, 碳链长度在 C14 到 C17 之间) Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01
XXV	218	硼酸钠盐 Orthoboric acid, sodium salt*	13840-56-7	0.01
XXV	219	^① 烷基酚, 碳链(C12 为主, 直链或支链)主要在对位, 包括其任何单个异构体或组合 Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.01
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环[2.2.1]庚-2-酮, 包括任何单独的异构体和/或其组合 (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.01
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.01
XXVI	222	S-(三环[5.2.1.0 ^{2,6}]癸-3-烯-8(或 9)-基)O-(异丙基或异丁基或 2-乙基己基)O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯 S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷 tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01
XXVII	224	N-羟甲基丙烯酰胺 N-(hydroxymethyl)acrylamide	924-42-5	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
XXVIII	225	1,2-二(2,4,6-三溴苯氧基)乙烷 1,1'-[ethane-1,2-diylbis(oxy)]bis [2,4,6-tribromobenzene]	37853-59-1	0.01
XXVIII	226	四溴双酚 A 2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	0.01
XXVIII	227	双酚 S 4,4'-sulphonyldiphenol (BPS)	80-09-1	0.01
XXVIII	228	偏硼酸钡 Barium diboron tetraoxide*	13701-59-2	0.01
XXVIII	229	3,4,5,6-四溴-1,2-苯二羧酸双(2-乙基己基)酯, 包括任何单独的异构体和/或其组合 Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.01
XXVIII	230	4-羟基苯甲酸 2-甲基丙酯 Isobutyl 4-hydroxybenzoate	4247-02-3	0.01
XXVIII	231	三聚氰胺 Melamine	108-78-1	0.05
XXVIII	232	全氟庚酸及其盐 Perfluoroheptanoic acid and its salts	-	0.01
XXVIII	233	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟烷-4-(七氟丙基)吗啉的反应物料 Reaction mass of 2,2,3,3,5,5,6,6-octafluoro- 4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.05
XXIX	234	二苯基(2,4,6-三甲基苯甲酰基)氧化膦 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01
XXIX	235	4,4'-二氯二苯砜 Bis(4-chlorophenyl) sulphone	80-07-9	0.01
XXX	236	2,4,6-三叔丁基苯酚 2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	0.01
XXX	237	2-[2-羟基-5-(1,1,3,3-四甲丁基)苯基]苯并三唑 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.01
XXX	238	2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苄基)-1-丁酮 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.01
XXX	239	2-(5-氯-2H-苯三唑-2-基)-6-(1,1-二甲基乙基)-4-甲基苯酚 Bumetrizole (UV-326)	3896-11-5	0.01
XXX	240	^① 2-苯基丙烯与苯酚的低聚和烷基化反应产物 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.01
XXXI	241	过氧化二异丙苯 Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.01
XXXI	242	磷酸三苯酯 Triphenyl phosphate	115-86-6	0.01
XXXII	243	6-[(C10-C13)-烷基-(支链, 不饱和)-2,5-二氧吡咯烷-1-基]己酸 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.01
XXXII	244	硫代磷酸(O,O,O-三苯基)酯 O,O,O-triphenyl phosphorothioate	597-82-0	0.01
XXXII	245	八甲基三硅氧烷 Octamethyltrisiloxane	107-51-7	0.01
XXXII	246	全氟三丙胺 Perfluamine	338-83-0	0.01
XXXII	247	三苯基硫代磷酸与叔丁基苯衍生物的反应物料 Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.01

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意向/潜在意向 SVHC 物质清单 List of intention/potential intention for identification of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	RL (%)
※	1	间苯二酚 Resorcinol	108-46-3	0.01
✱	2	六甲基二硅氧烷 Hexamethyldisiloxane	107-46-0	0.01
✱	3	十二甲基五硅氧烷 Dodecamethylpentasiloxane	141-63-9	0.01
✱	4	十甲基四硅氧烷 Decamethyltetrasiloxane	141-62-8	0.01
✱	5	1,1,1,3,5,5,5-七甲基-3-[(三甲基甲硅烷基)氧基]三硅氧烷 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.01
✱	6	活性棕 51 Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)-1,3,5-triazine-2-yl}amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazanyl]-5-methoxyphenyl}diazanyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.01
✱	7	甲醛 Formaldehyde	50-00-0	0.01

检测报告 Test Report

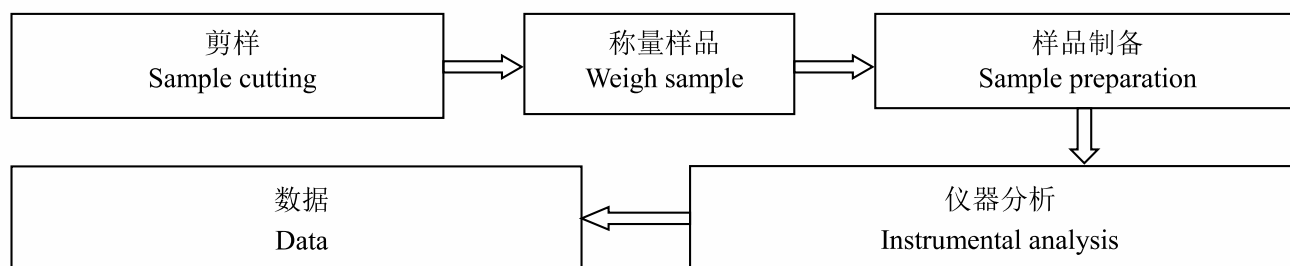
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附加信息 Appendix:

1. 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1%时，物品供应方需履行相关信息传递义务：
Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) 物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) 应消费者请求，物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. 根据欧盟 REACH 法规（编号 1907/2006）第 31 条款及附件 2 之规定，提供高度关注物质的物质类产品供应方，应免费提供接收方该物质的安全数据表。The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. 根据欧盟 REACH 法规（编号 1907/2006）第 31、32 条款及附件 2 之规定，提供含有高度关注物质的混合物产品供应方需传递相关信息：
The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) 如果混合物产品按照 1999/45/EC 被判定为危险品时，供应方应免费提供产品的安全数据表。
Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) 如果混合物产品按照 1999/45/EC 判定并非危险品，但是任一高度关注物质在非气体混合物中质量分数超过 0.1%或在气体混合物中体积分数超过 0.2%，供应方也应免费提供产品的安全数据表。
Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

检测流程 Test Process



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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定;
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
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In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

Test Report

No.: SZXEC25004683903

Date: Dec 05, 2025

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Client Name: SUN HONG OPTRONICS LTD

Client Address: NO. 9, SHENGHUA ROAD, CHENJIANG STREET, ZHONGKAI HIGH-TECH ZONE, HUIZHOU CITY, GUANGDONG PROVINCE, CHINA.

Sample Name: UP MOLDING COMPOUND

Client Ref. Information: WH-8100 Series

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-061488

Sample Receiving Date: Dec 02, 2025

Testing Period: Dec 02, 2025 ~ Dec 05, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Andy Ni
Approved Signatory

Scan to see the report



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Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	SZX25-0046839-0001.C002	Black solid particles

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS/ICP-MS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	4
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Test Report

No.: SZXEC25004683903

Date: Dec 05, 2025

Page 3 of 7

Test Item(s)	Limit	Unit(s)	MDL	A2
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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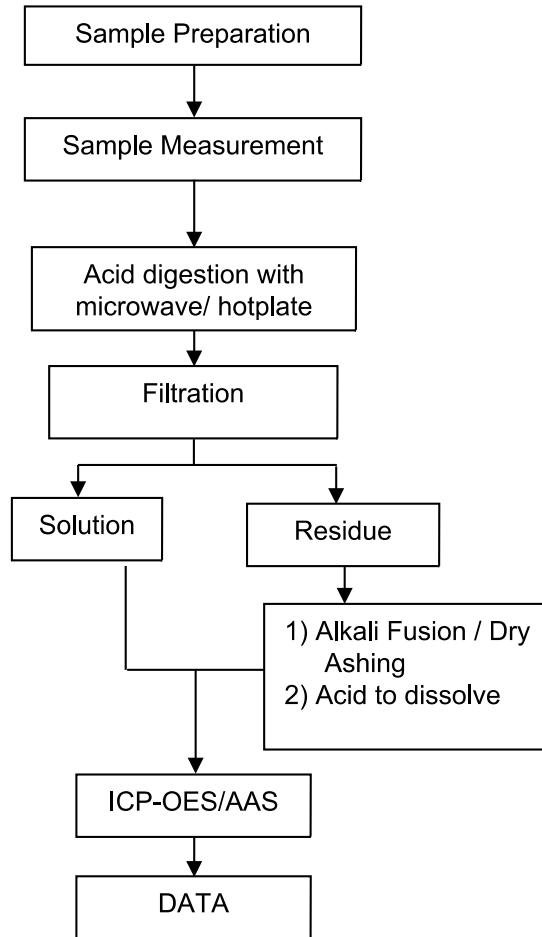
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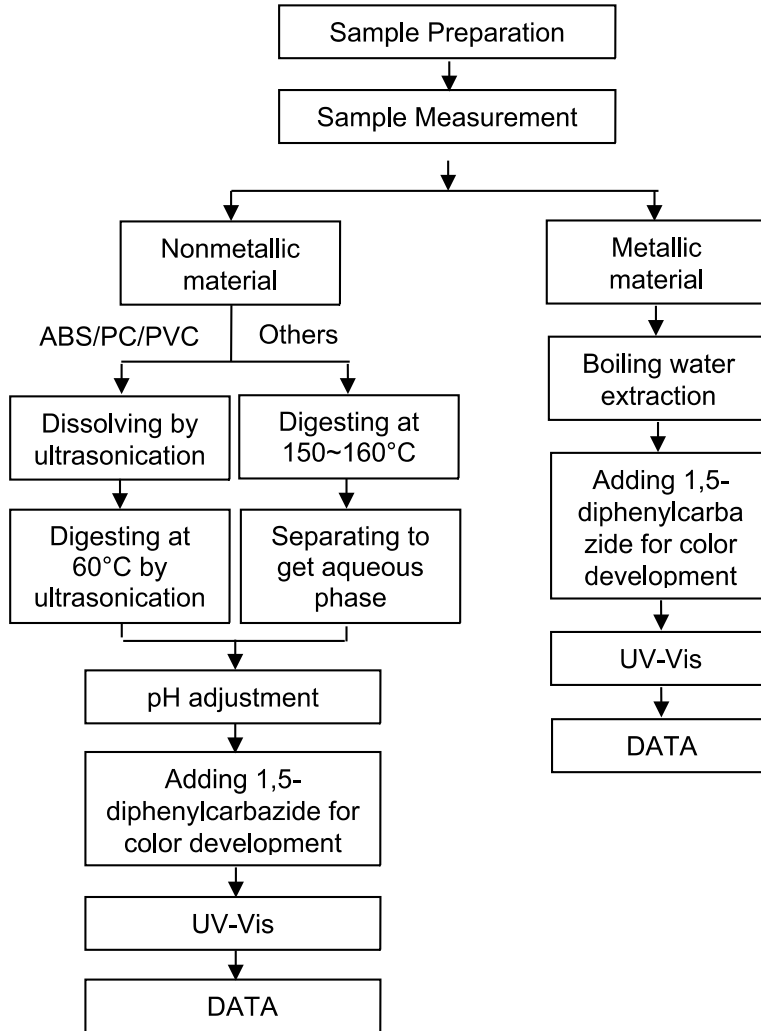
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



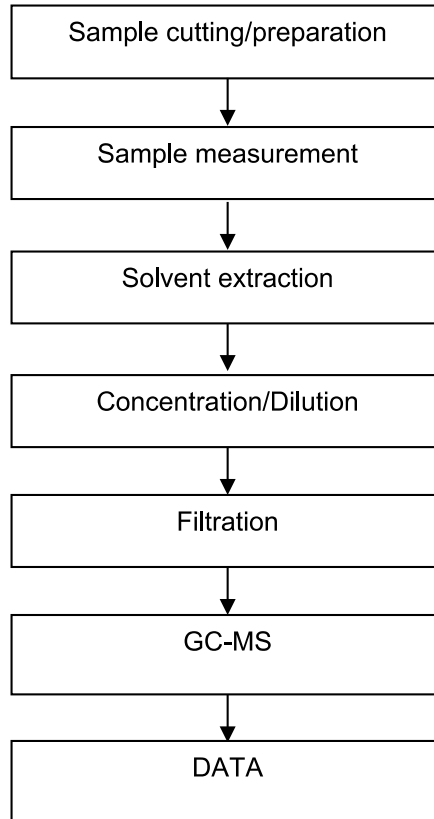
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PBB(s)/PBDE(s)/Phthalates Testing Flow Chart



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Test Report

No.: SZXEC25004683903

Date: Dec 05, 2025

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Sample Photo:



SGS authenticate the photo on original report only
*** End of Report ***



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Test Report (SVHC)

No.: CANAUTO25016275701

Date: Jul 11, 2025

Page 1 of 14

Client Name: SUN HONG OPTRONICS LTD

Client Address: NO. 9, SHENG HUA ROAD, HUIZHOU HI-TECH ZONE, GUANGDONG

Sample Name: UP MOLDING COMPOUND

Client Ref Infor: Color:Black
WH-6100,WH-8100,WH-8200,WH-8300

The above sample(s) and information were provided by the client.

SGS Job No.: GZAT2507004435CM01

Sample Receiving Date: Jul 07, 2025

Testing Period: Jul 07, 2025 ~ Jul 11, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
(i) Two hundred and fifty (250) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 25, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
As requested by client, Potential SVHC screening is performed according to:
(i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
(ii) Five (5) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 250 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Coral Qiu

Coral Qiu
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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检测报告

编号: SHAEC25033651310

日期: 2025 年 12 月 26 日

第 1 页, 共 7 页

客户名称: 安徽楚江科技新材料股份有限公司
客户地址: 中国(安徽)自由贸易试验区芜湖片区九华北路 8 号

样品名称: C5191

以上样品及信息由客户提供。

SGS 工作编号: TIC1020251217143222UXF5
样品接收时间: 2025 年 12 月 19 日
检测周期: 2025 年 12 月 19 日 ~ 2025 年 12 月 26 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务(上海)有限公司
授权签名

Jenny Lan 兰柳珍
批准签署人

Scan to see the report



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t HL (86-21) 61402594 f HL (86-21) 61156899 sgs.china@sgs.com

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A5	SHA25-0336513-0001.C005	铜色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A5
铅 (Pb)	1000	mg/kg	2	10
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND



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检测报告

编号: SHAEC25033651310

日期: 2025 年 12 月 26 日

第 3 页, 共 7 页

检测项目	限值	单位	MDL	A5
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ =
 - a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
 - b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。
 除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。
 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



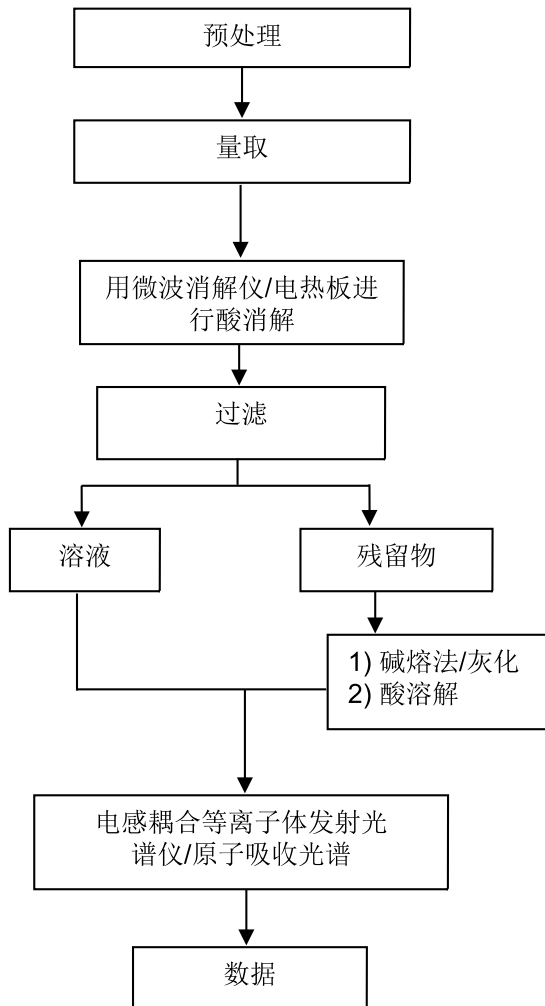
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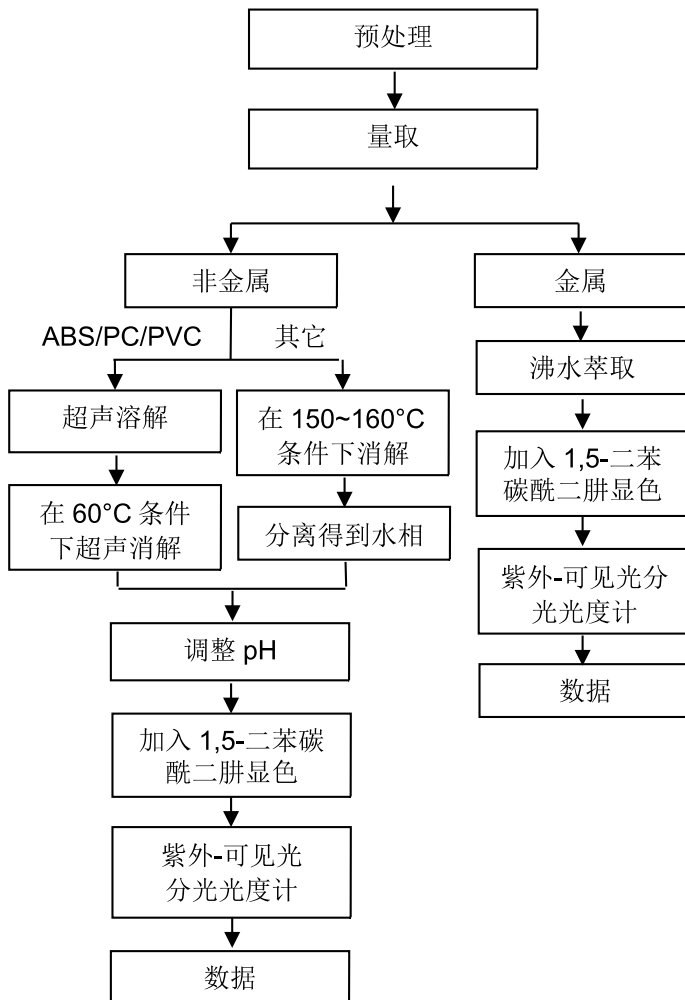
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元素检测流程图

样品按照下述流程被完全消解



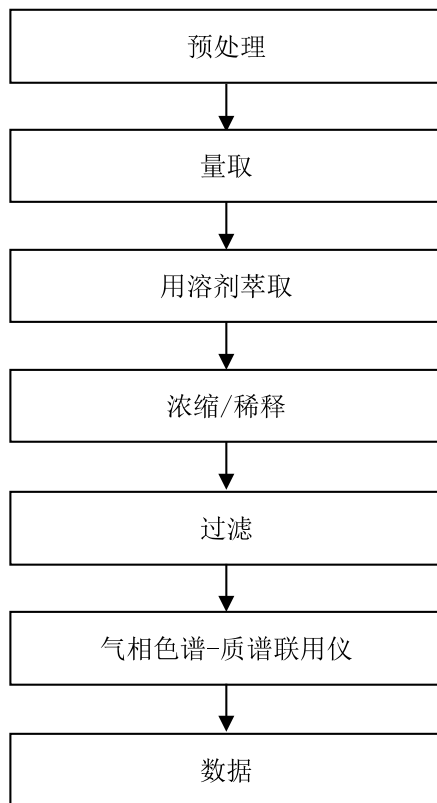
六价铬检测流程图



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PBB(s)/PBDE(s)/Phthalates 检测流程图



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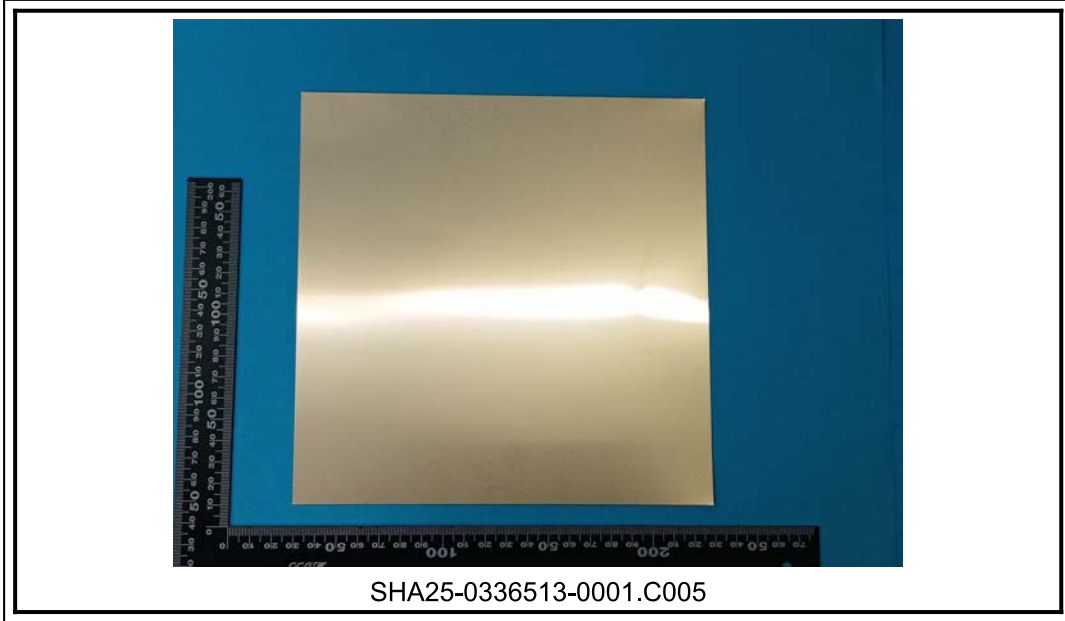
检测报告

编号: SHAEC25033651310

日期: 2025 年 12 月 26 日

第 7 页, 共 7 页

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Test Report (SVHC)

No.: SHAEC25033651341

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Client Name: Anhui Truchum Advanced Materials & Technology Co., Ltd.

Client Address: No. 8 Jiuhua North Road, Anhui Pilot Free Trade Zone Wuhu District, China

Sample Name: C5191

The above sample(s) and information were provided by the client.

SGS Job No.: TIC1020251217143222UXF5

Sample Receiving Date: Dec 19, 2025

Testing Period: Dec 19, 2025 ~ Dec 26, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
 (i) Two hundred and fifty-one (251) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Nov 5, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 As requested by client, Potential SVHC screening is performed according to:
 (i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
 (ii) Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Nov 5, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 251 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the results of 4 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass

Signed for and on behalf of
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jenny Lan
 Approved Signatory

Scan to see the report



F13ED7AD



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

- 2.1 Concerning article(s):

- Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

- 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Copper metal	A5	SHA25-0336513-0001.C005

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it \geq RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) \geq 0.1% (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix:

Full list of tested SVHC

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclotrasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
XXXIII	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
XXXIII	249	Decamethyltetrasiloxane	141-62-8	0.050



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**Test Report
(SVHC)**

No.: SHAEC25033651341

Date: Dec 26, 2025

Page 13 of 15

Batch	No.	Substance Name	CAS No.	RL (%)
XXXIII	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl]amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.050
XXXIV	251	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	0.050
/	252	Resorcinol	108-46-3	0.050
/	253	n-hexane	110-54-3	0.050
/	254	4,4'-methylenediphenol (BPF)	620-92-8	0.050
/	255	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF) and its salts	-	0.050



SGS-CSTC Shanghai Technical Services Co., Ltd.
Chemical Laboratory

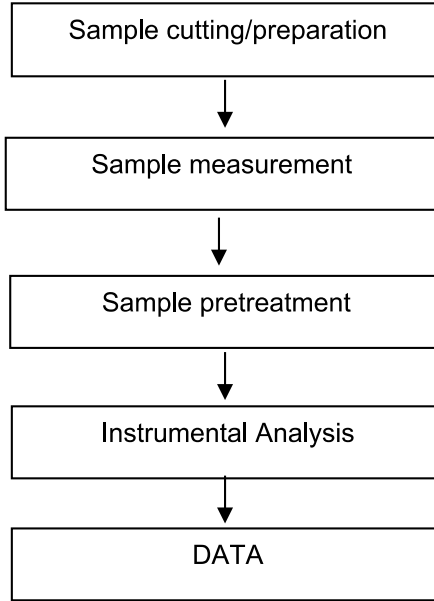
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Testing Flow Chart



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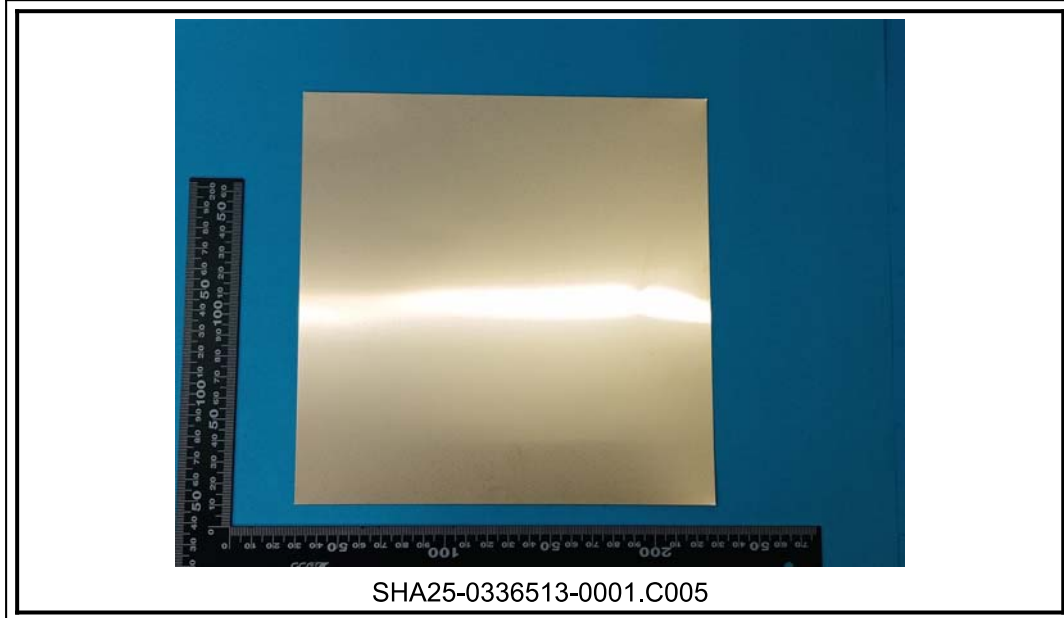
Test Report (SVHC)

No.: SHAEC25033651341

Date: Dec 26, 2025

Page 15 of 15

Sample photos:



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Test Report

No.: CANEC25002968303

Date: Feb 26, 2025

Page 1 of 7

Client Name: GUANGDONG ZHONGSHI METALS CO.,LTD

Client Address: NO.2,NORTH INDUSTRY NO.1 ROAD,SONGSHAN LAKE HING-TECH INDUSTRY DEVELOPMENT ZONE,DONGGUAN CITY,GUANGDONG PROVINCE,CHINA

Sample Name: Silvery metal wire

Model No.: SC07

Client Ref. Information: SC07、SAC305、SAC2505、SAC205、SAC105、SA35、SA3、SA5、SA25、SA03、SAC0307、SAC0505、S100、I52、SS5、SC3、B58、AB135、AB158、SS10、Sn42Bi58

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-006238

Sample Receiving Date: Feb 20, 2025

Testing Period: Feb 20, 2025 ~ Feb 26, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

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F3ED7A4F



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0029683-0001.C001	Silvery metal

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	58
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND



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Test Report

No.: CANEC25002968303

Date: Feb 26, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A1
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Guangzhou Branch Technical Services Co., Ltd. Technical Laboratory

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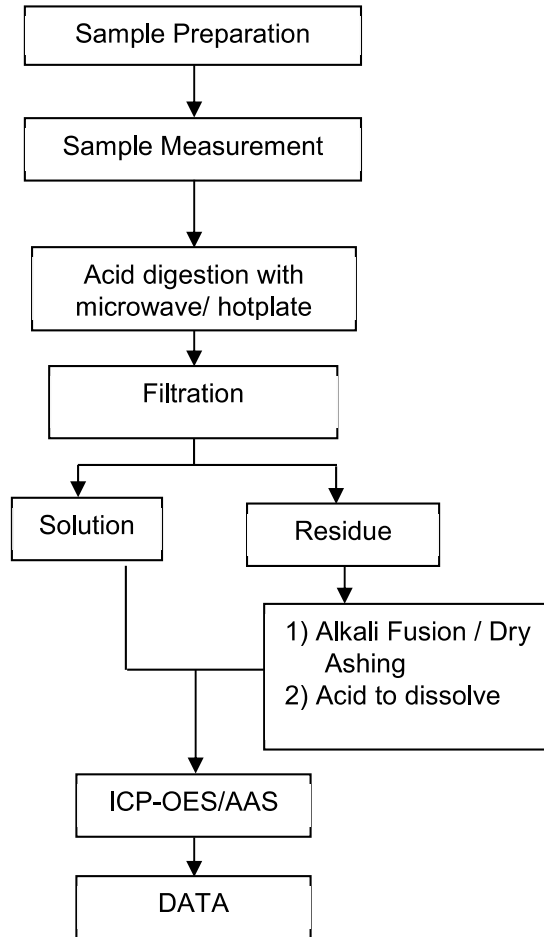
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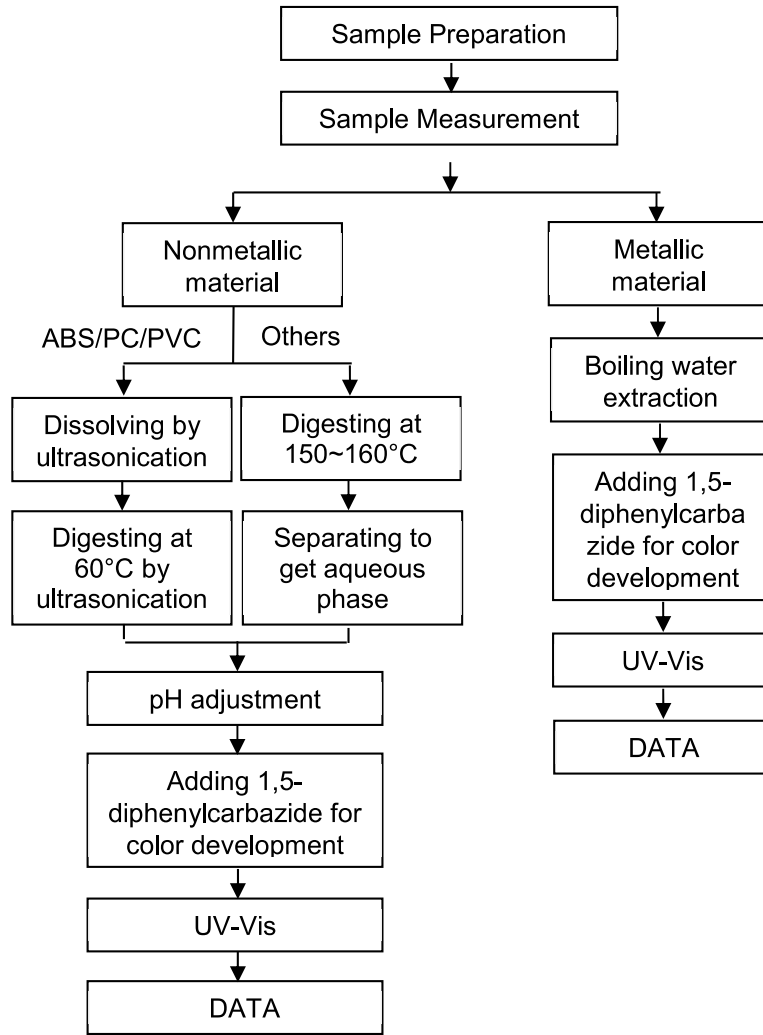
ATTACHMENTS

Elements Testing Flow Chart

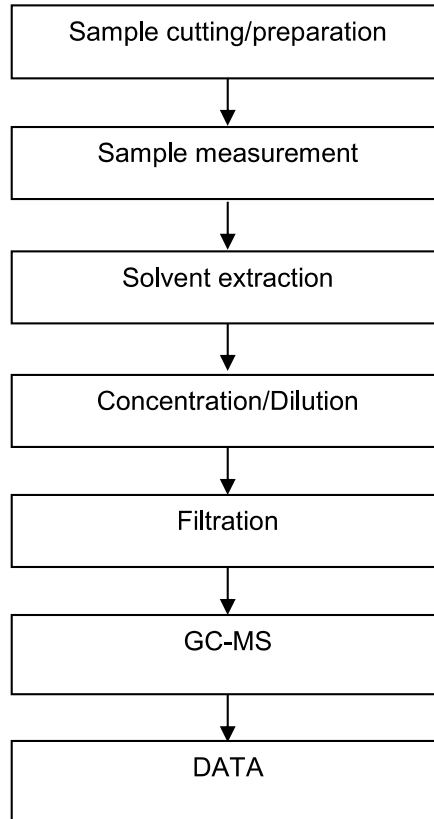
These samples were dissolved totally by pre-conditioning method according to below flow chart.



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB/PBDE/Phthalates Testing Flow Chart



Test Report

No.: CANEC25002968303

Date: Feb 26, 2025

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Sample Photo:



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Test Report (SVHC)

No.: CANEC25002968305

Date: Feb 26, 2025

Page 1 of 16

Client Name: GUANGDONG ZHONGSHI METALS CO.,LTD

Client Address: NO.2,NORTH INDUSTRY NO.1 ROAD,SONGSHAN LAKE HING-TECH INDUSTRY DEVELOPMENT ZONE,DONGGUAN CITY,GUANGDONG PROVINCE,CHINA

Sample Name: Silvery metal wire

Model No.: SC07

Client Ref. Information: SC07、SAC305、SAC2505、SAC205、SAC105、SA35、SA3、SA5、SA25、SA03、SAC0307、SAC0505、S100、I52、SS5、SC3、B58、AB135、AB158、SS10、Sn42Bi58

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-006238

Sample Receiving Date: Feb 20, 2025

Testing Period: Feb 20, 2025 ~ Feb 26, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:

(i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.

As requested by client, Potential SVHC screening is performed according to:

(i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.

(ii) Five (5) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

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Guangzhou Branch Analytical Services Laboratory

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**Test Report
(SVHC)**

No.: CANEC25002968305

Date: Feb 26, 2025

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According to the specified scope and evaluation screening, the results of 247 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
 Communication:
 Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



**Test Report
(SVHC)**

No.: CANEC25002968305

Date: Feb 26, 2025

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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Silvery metal	A1	CAN25-0029683-0001.C001

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



SGS-CTI Standards Technical Services Co., Ltd.
Guangzhou Branch Technical Services Co., Ltd. Laboratory

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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
XIX	Lead	7439-92-1	0.006	0.005
-	Other SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead arsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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**Test Report
(SVHC)**

No.: CANEC25002968305

Date: Feb 26, 2025

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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclotetrasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	Resorcinol	108-46-3	0.050
/	249	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	250	Decamethyltetrasiloxane	141-62-8	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
/	251	Dodecamethylpentasiloxane	141-63-9	0.050
/	252	Hexamethyldisiloxane	107-46-0	0.050
/	253	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino)-5-sulfonato-1-naphthyl]diazenyl]-5-methoxyphenyl]diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.050



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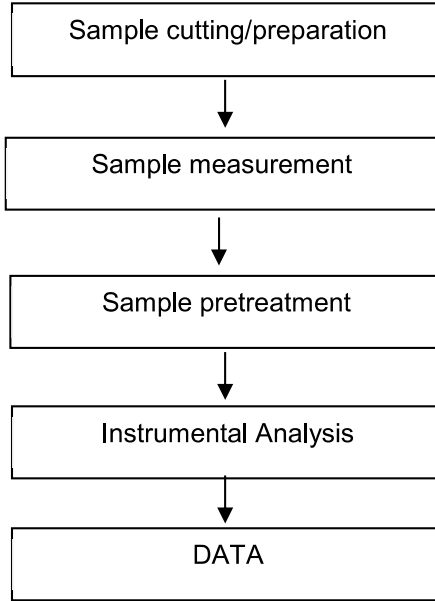
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ATTACHMENTS

Testing Flow Chart



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Sample photos:



SGS authenticate the photo on original report only
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Test Report



Report No. A2250132659101002

Company Name shown on Report OFC (CHENGDU) MANUFACTURE TECHNOLOGY RESEARCH & APPLICATION INSTITUTE,CHINA
Address CHENGDU HI-TECH ZONE,SICHUAN CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name FLUX
Model No. F SERIES
Color Pale yellow transparent liquid
Lot No. 20250228051
Material oranic mixture
Supplier OFC
Sample Received Date Mar. 7, 2025
Testing Period Mar. 7, 2025 to Mar. 11, 2025

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Antimony(Sb) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).



Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



Hill Zheng

Date Mar. 11, 2025

Hill Zheng
Technical Manager

No. R262621640

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS
Antimony(Sb)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES

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Test Result(s)

Tested Item(s)	Result	MDL	Limit
	002		
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
	002		
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	25 mg/kg	1000 mg/kg
Dibromobiphenyl	N.D.	25 mg/kg	
Tribromobiphenyl	N.D.	25 mg/kg	
Tetrabromobiphenyl	N.D.	25 mg/kg	
Pentabromobiphenyl	N.D.	25 mg/kg	
Hexabromobiphenyl	N.D.	25 mg/kg	
Heptabromobiphenyl	N.D.	25 mg/kg	
Octabromobiphenyl	N.D.	25 mg/kg	
Nonabromobiphenyl	N.D.	25 mg/kg	
Decabromobiphenyl	N.D.	25 mg/kg	
Tested Item(s)	Result	MDL	Limit
	002		
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	25 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	25 mg/kg	
Tribromodiphenyl ether	N.D.	25 mg/kg	
Tetrabromodiphenyl ether	N.D.	25 mg/kg	
Pentabromodiphenyl ether	N.D.	25 mg/kg	
Hexabromodiphenyl ether	N.D.	25 mg/kg	
Heptabromodiphenyl ether	N.D.	25 mg/kg	
Octabromodiphenyl ether	N.D.	25 mg/kg	
Nonabromodiphenyl ether	N.D.	25 mg/kg	
Decabromodiphenyl ether	N.D.	25 mg/kg	

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Test Result(s)

Tested Item(s)	Result	MDL	Limit
	002		
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg
Tested Item(s)	Result	MDL	
	002		
Antimony (Sb)	N.D.	5 mg/kg	

Sample/Part Description

No.	CTI Sample ID	Description
1	002	Light yellow transparent liquid

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Antimony.

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%

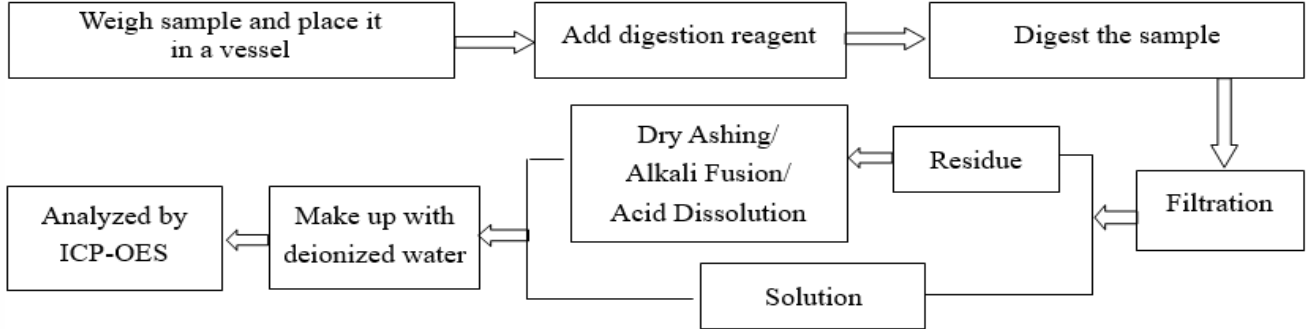
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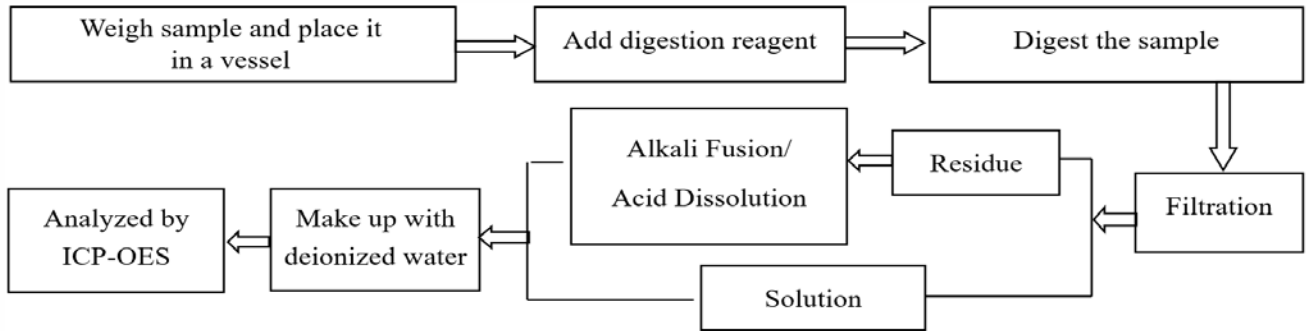
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Test Process

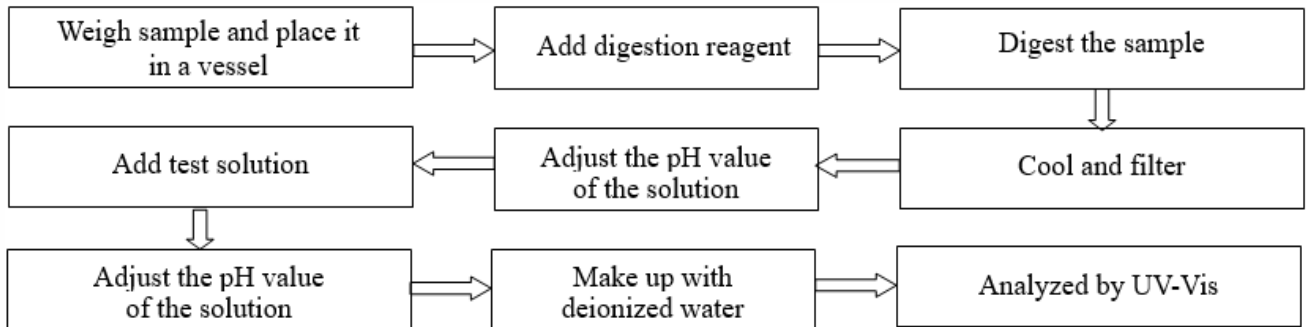
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



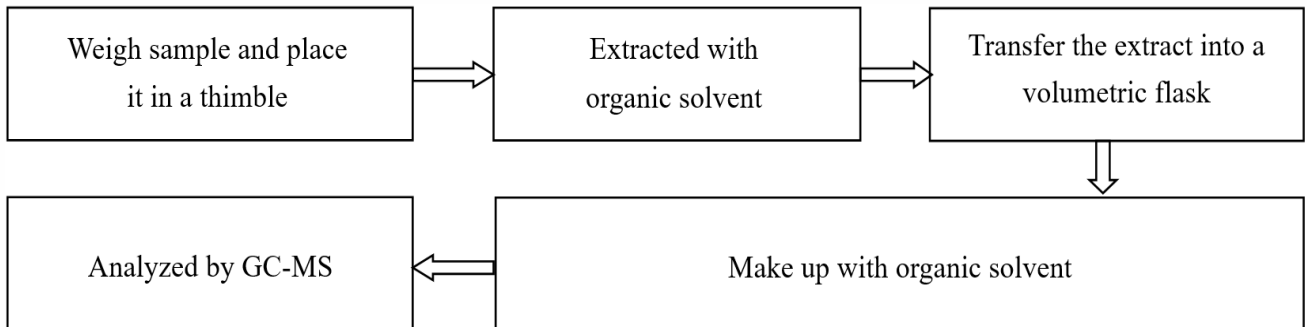
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

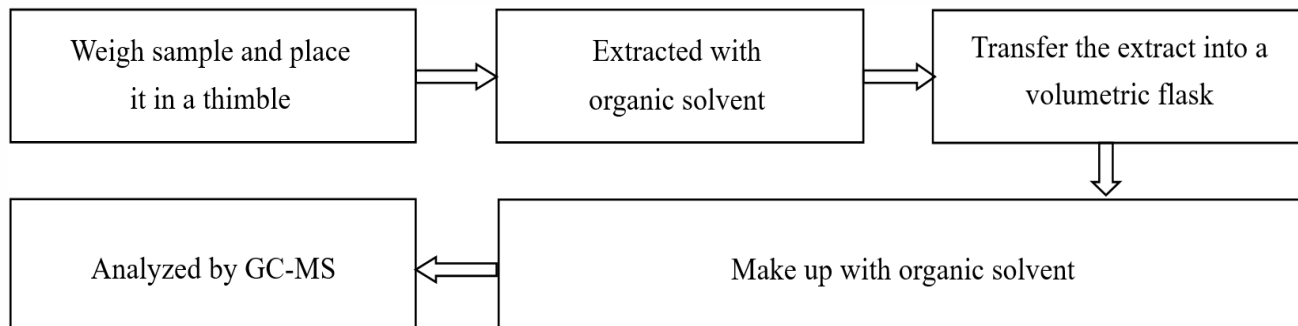


Test Report

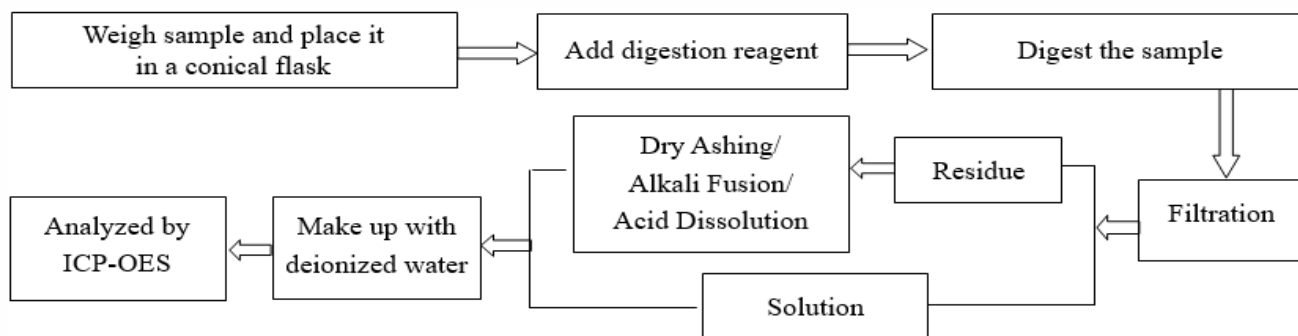
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5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Antimony(Sb)



MS-2019-03-17-01-18

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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Appendix

Client Reference Information

F SERIES (

PF-01/02/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;

F101/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;

F102/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-1/2/3/4/5/6/7/8/9/10/11/12/13/15/16/17/18/19/20/29/49/70/105/106;F102RE; F102REA;F102R-2; F102R-2A; F102R-2P;F102RS-2T;

F102K/29/49;F102K1;F102KS/12;F102KE49T;F102KS02;

F102KE1;F102KE149T;F102K129/49T/105; F102K1P; F102KP1;

F102K31; F102K31A; F102K31P; F102K31T; F102K31T/32/33/34/35/36/A/T/P/S/X;

F102K31-1/A/B/P; F102K31A-1;F102K31A-2;F102K31-5/A/B/T/P

F103/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-0/1/2/3/4/5/6/7/8/9/10/15/19/29/49/58/70/100/105/106/200;

F103X-C1;F103X1;F103X1-1/-5-6/-8/-18;F103H;F103M;F103BT/-1/-2;

F103M;F103M0;F103M/1/2/3/4/5/6/7/8/9/10/11/12/13/15;F103M-C32

F105/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F105/A/K/T/X/B/E;F105K-2A;F105T;

F107/A/B/T/-2/-3/-4/-5/-6/R/X;F107X/-1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;F107T/-1/-2/-3/6/-11/A/B;

F114/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F115/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;F115MA;

F116/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F118/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F118R;F118RT;F118P;F118E;F118X;

X-F01/02/03/18/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;;etc

F315/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F316/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F318/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;

F318R-2/A/B/C/E/H/K/N/T/D/X/M/L/Q/-1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;

F318R-2/A/B/C/E/H/K/N/T/D/X/M/L/Q/-1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;

F318R-3/A/B/C/E/H/K/N/T/D/X/M/L/Q/-1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90/320/321;

F318R-6/A/B/C/E/H/K/N/T/D/X/M/L/Q/-1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;

F318R-6/A/B/C/E/H/K/N/T/D/X/M/L/Q/-1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;

F318R-2; F318R-2A; F318-2M49;F318R-2NT;F318RH-3-1;

F318R-3;F318R-3改C;F318R-3NT; F318R-5; F318R-6; F318R-7;F315-4A0;

F318R;F318RK;F318R-320/A/B/H/K/M/T/X;F318R-321/A/B/H/K/M/T/X;

F302/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-1/2/3/4/5/6/7/8/9/10/11/12/13/15/16/17/18/19/20/29/49/70/105/106;

F302B; F302BD; F302B-2; F302BD-2;

F303/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-1/2/3/4/5/6/7/8/9/10/11/12/13/15/16/17/18/19/20/29/49/70/105/106;

E100;ED100;EDT100; EDT100X;EDX100;F303-2ND;

E200;ED200;EDT200;EDT200X; EDX200;

E58; E58-1BN;ED58;EDT58;EDT58X;

;etc)

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2250132659101002.



Test Report

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Company Name OFC (CHENGDU) MANUFACTURE TECHNOLOGY RESEARCH & APPLICATION
shown on Report INSTITUTE,CHINA
Address CHENGDU HI-TECH ZONE,SICHUAN CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name FLUX
Model No. F SERIES
Color Pale yellow transparent liquid
Lot No. 20250228051
Material oranic mixture
Supplier OFC
Sample Received Date Mar. 7, 2025
Testing Period Mar. 7, 2025 to Mar. 14, 2025

Test Requested

- 1.As specified by client, to screen the 247 substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 2.As specified by client, to screen the 3 substance published on February 28th 2025 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 3.As specified by client, to screen the 1 substance published on June 1st 2021 submitted by EU Member States to ECHA for intention for identification of substance of very high concern (SVHC) under Regulation (EC) No 1907/2006 of REACH in the submitted sample(s).
- 4.As specified by client, to screen the 3 potential intentional substances for identification of SVHC in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Summary According to the analytical results, concentrations of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample(s).



Ophelie Wen

Date

Mar. 14, 2025

Ophelie Wen
Lab Authorized Signatory

No. R262626762

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Test Result(s) 1

Batch	No.	Substance Name(s)	CAS No.	Concentration (%)	RL (%)
				001	
-	-	All tested SVHC (See the candidate list)	-	N.D.	-

Test Result(s) 2

Batch	No.	Substance Name(s)	CAS No.	Concentration (%)	RL (%)
				001	
-	-	All tested intention/potential intention for identification of SVHC (See the list of intention/potential intention for identification of SVHC)	-	N.D.	-

Test Method:

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016, In house method for sample pretreatment.

Analyzed by ICP-OES, UV-Vis, PLM, SEM, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID, LC-QTOF, HPLC-DAD and LC-MS-MS.

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Light yellow transparent liquid

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Remark:

1. The table of tested result(s) only shows detected SVHC, and SVHC that below RL are not reported. Please refer to the List of SVHC/intention/potential intention for identification of SVHC on next pages.
2. w/w = weight by weight; 0.1%= 1000 mg/kg =1000 ppm
3. N.D. = Not Detected (< RL)
4. RL = Report Limit (Concentration value will be shown if it \geq RL. RL is not regulatory limit.)
5. ※ = Intention for identification of SVHC
6. ⚠ = Potential intention for identification of SVHC
7. *: Concentration value of the substance by the conversion from the test results of certain elements. Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE), Dibutylbis(pentane-2,4-dionato-O,O')tin, [Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety] by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
8. **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
9. ***: C.I.: Colour Index
10. ****: Light fractions from distillation
11. *****: Concentration value of Disodiumtetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodiumtetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
12. ^: Concentration value of Formaldehyde, oligomeric reaction products with aniline by the conversion from the test results of certain compounds(2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
13. ①: In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
14. ②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.

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Candidate List of SVHC

Batch	No.	Substance Name(s)	CAS No.	RL (%)
I	1	Anthracene	120-12-7	0.005
I	2	4,4'- Diaminodiphenylmethane	101-77-9	0.005
I	3	Dibutyl phthalate(DBP)	84-74-2	0.005
I	4	Cobalt dichloride*	7646-79-9	0.01
I	5	Diarsenic pentaoxide*	1303-28-2	0.01
I	6	Diarsenic trioxide*	1327-53-3	0.01
I	7	Sodium dichromate*	7789-12-0 10588-01-9	0.01
I	8	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.005
I	9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	0.005
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.005
I	11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	85535-84-8	0.01
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	0.01
I	13	Lead hydrogen arsenate*	7784-40-9	0.01
I	14	Benzyl butyl phthalate(BBP)	85-68-7	0.005
I	15	Triethyl arsenate*	15606-95-8	0.01
II	16	^① Anthracene oil	90640-80-5	0.05
II	17	^① Anthracene oil, anthracene paste, distn. lights****	91995-17-4	0.05
II	18	^① Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	0.05
II	19	^① Anthracene oil, anthracene-low	90640-82-7	0.05
II	20	^① Anthracene oil, anthracene paste	90640-81-6	0.05
II	21	^① Pitch, coal tar, high-temp.	65996-93-2	0.05
II	22	Acrylamide	79-06-1	0.01
II	23	2,4-dinitrotoluene	121-14-2	0.01
II	24	Diisobutyl phthalate (DIBP)	84-69-5	0.005
II	25	^② Lead chromate	7758-97-6	0.05
II	26	^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	0.05
II	27	^② Lead sulphochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	0.05
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	0.01
III	29	Trichloroethylene	79-01-6	0.005
III	30	Boric acid*	10043-35-3 11113-50-1	0.01
III	31	^② Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	0.01
III	32	^② Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	0.01
III	33	Sodium chromate*	7775-11-3	0.01
III	34	Potassium chromate*	7789-00-6	0.01
III	35	Ammonium dichromate*	7789-09-5	0.01
III	36	Potassium dichromate*	7778-50-9	0.01
IV	37	Cobalt(II) sulphate*	10124-43-3	0.01
IV	38	Cobalt(II) dinitrate*	10141-05-6	0.01
IV	39	Cobalt(II) carbonate*	513-79-1	0.01
IV	40	Cobalt(II) diacetate*	71-48-7	0.01

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Batch	No.	Substance Name(s)	CAS No.	RL (%)
IV	41	2-methoxyethanol	109-86-4	0.005
IV	42	2-ethoxyethanol	110-80-5	0.005
IV	43	Chromium trioxide*	1333-82-0	0.01
IV	44	^① Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	0.01
V	45	2-ethoxyethyl acetate	111-15-9	0.01
V	46	Strontium chromate*	7789-06-2	0.01
V	47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.01
V	48	Hydrazine	7803-57-8 302-01-2	0.01
V	49	1-methyl-2-pyrrolidone (NMP)	872-50-4	0.01
V	50	1,2,3-trichloropropane	96-18-4	0.01
V	51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.01
VI	52	Dichromium tris(chromate)*	24613-89-6	0.01
VI	53	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.01
VI	54	Pentazinc chromate octahydroxide*	49663-84-5	0.01
VI	55	^② Aluminosilicate Refractory Ceramic Fibres (RCF)**	-	0.05
VI	56	^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	0.05
VI	57	^① Formaldehyde, oligomeric reaction products with aniline [▲]	25214-70-4	0.01
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	0.005
VI	59	2-Methoxyaniline(o-Anisidine)	90-04-0	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.005
VI	61	1,2-dichloroethane	107-06-2	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	0.005
VI	63	Arsenic acid*	7778-39-4	0.01
VI	64	Calcium arsenate*	7778-44-1	0.01
VI	65	Trilead diarsenate*	3687-31-8	0.01
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	0.005
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.005
VI	68	Phenolphthalein	77-09-8	0.005
VI	69	Lead diazide, Lead azide*	13424-46-9	0.01
VI	70	Lead styphnate*	15245-44-0	0.01
VI	71	Lead dipicrate*	6477-64-1	0.01
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	0.01
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01
VII	74	Diboron trioxide*	1303-86-2	0.01
VII	75	Formamide	75-12-7	0.01
VII	76	Lead(II) bis(methanesulfonate)*	17570-76-2	0.01
VII	77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.01
VII	78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.01
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	0.01
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.01
VII	81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)***	548-62-9	0.01
VII	82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)***	2580-56-5	0.01

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Batch	No.	Substance Name(s)	CAS No.	RL (%)
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	0.01
VII	84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	0.01
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	0.05
VIII	86	^① 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))(ADCA)	123-77-3	0.05
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.05
VIII	89	Henicosaflluoroundecanoic acid	2058-94-8	0.05
VIII	90	Pentacosaflluorotridecanoic acid	72629-94-8	0.05
VIII	91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	0.05
VIII	92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.05
VIII	93	Heptacosaflluorotetradecanoic acid	376-06-7	0.05
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	0.05
VIII	95	^① 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.05
VIII	96	n-pentyl-isopentylphthalate	776297-69-9	0.05
VIII	97	Methoxyacetic acid	625-45-6	0.05
VIII	98	Tricosaflluorododecanoic acid	307-55-1	0.05
VIII	99	1,2-diethoxyethane	629-14-1	0.05
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.05
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.05
VIII	102	N-methylacetamide	79-16-3	0.05
VIII	103	Pentalead tetraoxide sulphate*	12065-90-6	0.01
VIII	104	Biphenyl-4-ylamine	92-67-1	0.05
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.05
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	0.01
VIII	107	Lead dinitrate*	10099-74-8	0.01
VIII	108	Tetralead trioxide sulphate*	12202-17-4	0.01
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	0.01
VIII	110	Lead titanium trioxide*	12060-00-3	0.01
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	0.05
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	0.01
VIII	113	Dimethyl sulphate	77-78-1	0.05
VIII	114	Furan	110-00-9	0.05
VIII	115	Pyrochlore, antimony lead yellow*	8012-00-8	0.01
VIII	116	Tetraethyllead*	78-00-2	0.01
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.01
VIII	118	Diethyl sulphate	64-67-5	0.05
VIII	119	Lead cyanamidate*	20837-86-9	0.01
VIII	120	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	0.01
VIII	121	Trilead dioxide phosphonate*	12141-20-7	0.01

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Batch	No.	Substance Name(s)	CAS No.	RL (%)
VIII	122	<i>o</i> -Toluidine	95-53-4	0.05
VIII	123	<i>o</i> -aminoazotoluene	97-56-3	0.05
VIII	124	4-aminoazobenzene	60-09-3	0.05
VIII	125	6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	120-71-8	0.05
VIII	126	Dibutyltin dichloride (DBTC)*	683-18-1	0.05
VIII	127	Lead titanium zirconium oxide*	12626-81-2	0.01
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	0.05
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	0.05
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	0.01
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	0.01
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	0.01
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.01
VIII	134	4,4'-oxydianiline and its salts	101-80-4	0.05
VIII	135	Lead oxide sulfate*	12036-76-9	0.01
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	0.01
VIII	137	Silicic acid, lead salt*	11120-22-2	0.01
VIII	138	N,N-dimethylformamide	68-12-2	0.05
IX	139	Cadmium	7440-43-9	0.01
IX	140	Cadmium oxide*	1306-19-0	0.01
IX	141	Dipentyl phthalate (DPP)	131-18-0	0.01
IX	142	^① 4-Nonylphenol, branched and linear, ethoxylated/substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.05
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01
X	145	^① Trixylyl phosphate	25155-23-1	0.01
X	146	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01
X	147	Dihexyl phthalate	84-75-3	0.01
X	148	Cadmium sulphide*	1306-23-6	0.01
X	149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	0.01
X	150	Lead di(acetate)*	301-04-2	0.01
X	151	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.01
XI	152	^① 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01
XI	153	Cadmium chloride*	10108-64-2	0.01
XI	154	^② Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	0.01
XI	155	^② Sodium peroxometaborate*****	7632-04-4	0.01
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01
XII	157	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl- 7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	0.05
XII	159	Cadmium fluoride*	7790-79-6	0.01
XII	160	Cadmium sulphate*	10124-36-4 31119-53-6	0.01

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Batch	No.	Substance Name(s)	CAS No.	RL (%)
XII	161	^① Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)*	-	0.05
XIII	162	^① 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	0.05
XIII	163	^② 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.05
XIV	164	Nitrobenzene	98-95-3	0.01
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01
XIV	167	1,3-propanesultone	1120-71-4	0.01
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01
XVI	170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	0.01
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.01
XVI	172	<i>p</i> -(1,1-dimethylpropyl)phenol	80-46-6	0.01
XVI	173	^① 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.05
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	0.0005
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	0.01
XVIII	176	Benzo[a]anthracene	56-55-3	0.01
XVIII	177	Cadmium nitrate*	10325-94-7	0.01
XVIII	178	Cadmium carbonate*	513-78-0	0.01
XVIII	179	Cadmium hydroxide*	21041-95-2	0.01
XVIII	180	Chrysene	218-01-9	0.01
XVIII	181	^① Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)]	-	0.05
XIX	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01
XIX	183	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01
XIX	184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01
XIX	185	Lead	7439-92-1	0.01
XIX	186	Disodium octaborate*	12008-41-2	0.01
XIX	187	Benzo[ghi]perylene	191-24-2	0.01
XIX	188	^① Terphenyl, hydrogenated	61788-32-7	0.01
XIX	189	Ethylenediamine (EDA)	107-15-3	0.01

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Batch	No.	Substance Name(s)	CAS No.	RL (%)
XIX	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.01
XIX	191	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01
XX	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01
XX	193	Benzo[k]fluoranthene	207-08-9	0.01
XX	194	Fluoranthene	206-44-0	0.01
XX	195	Phenanthrene	85-01-8	0.01
XX	196	Pyrene	129-00-0	0.01
XX	197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (3-BC)	15087-24-8	0.01
XXI	198	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01
XXI	199	2-methoxyethyl acetate	110-49-6	0.01
XXI	200	4-tert-butylphenol	98-54-4	0.01
XXI	201	^① Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.01
XXII	202	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	0.01
XXII	203	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	71868-10-5	0.01
XXII	204	Diisohexyl phthalate	71850-09-4	0.01
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01
XXIII	206	1-vinylimidazole	1072-63-5	0.01
XXIII	207	2-methylimidazole	693-98-1	0.01
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.01
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin*	22673-19-4	0.05
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.01
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety*	-	0.05
XXV	212	1,4-dioxane	123-91-1	0.01
XXV	213	2,2-bis(bromomethyl) propane-1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.01
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01
XXV	215	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	77-40-7	0.01
XXV	216	Glutaral	111-30-8	0.01
XXV	217	^① Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.01
XXV	219	^① Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.01
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.01
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.01
XXVI	222	S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01
XXVI	223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01

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Batch	No.	Substance Name(s)	CAS No.	RL (%)
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.01
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis [2,4,6-tribromobenzene]	37853-59-1	0.01
XXVIII	226	2,2',6,6'-tetrabromo-4,4'- isopropylidenediphenol (TBBPA)	79-94-7	0.01
XXVIII	227	4,4'-sulphonyldiphenol (BPS)	80-09-1	0.01
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.01
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.01
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01
XXVIII	231	Melamine	108-78-1	0.05
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.01
XXVIII	233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.05
XXIX	234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.01
XXIX	235	Bis(4-chlorophenyl) sulphone	80-07-9	0.01
XXX	236	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	0.01
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.01
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.01
XXX	239	Bumetrizole (UV-326)	3896-11-5	0.01
XXX	240	^① Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.01
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.01
XXXI	242	Triphenyl phosphate	115-86-6	0.01
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl] hexanoic acid	2156592-54-8	0.01
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.01
XXXII	245	Octamethyltrisiloxane	107-51-7	0.01
XXXII	246	Perfluamine	338-83-0	0.01
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.01

List of intention/potential intention for identification of SVHC

Batch	No.	Substance Name(s)	CAS No.	RL (%)
XXXIII	1	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.01
XXXIII	2	Decamethyltetrasiloxane	141-62-8	0.01
XXXIII	3	Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl} amino)-1,3,5-triazine-2-yl] amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl} diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.01
※	4	Resorcinol	108-46-3	0.01
※	5	Hexamethyldisiloxane	107-46-0	0.01
※	6	Dodecamethylpentasiloxane	141-63-9	0.01
※	7	N-hexane	110-54-3	0.01

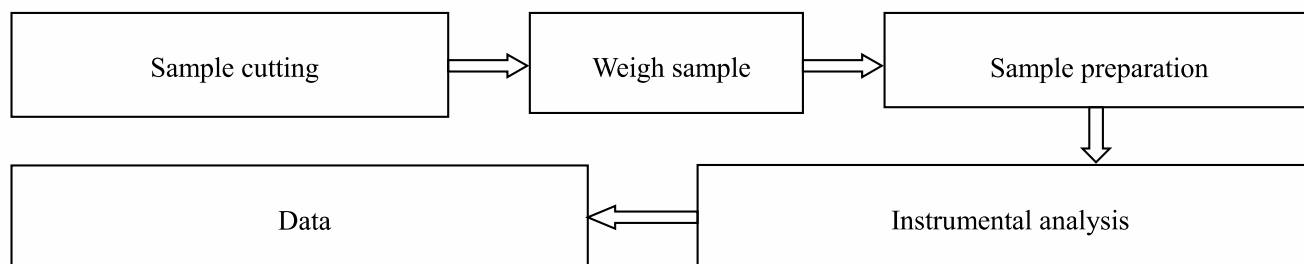
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Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

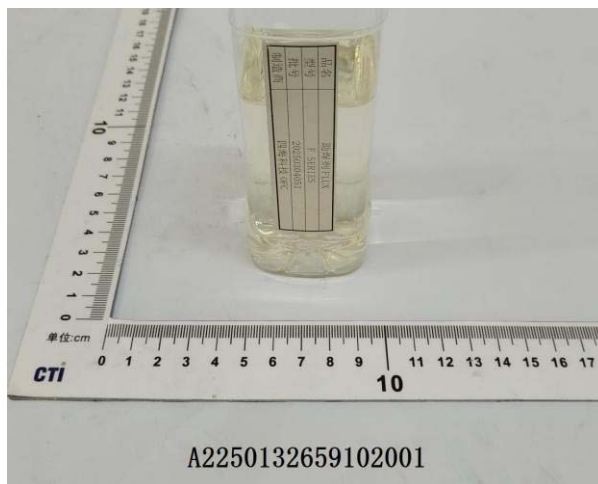
Test Process

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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***

Appendix

Client Reference Information

F SERIES(

PF-01/02/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;
F101/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;
F102/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-/1/2/3/4/5/6/7/8/9/10/11/12/13/15/16/17/18/19/20/29/49/70/105/106;F102RE; F102REA;F102R-2; F102R-2A; F102R-2P;F102RS-2T;
F102K/29/49;F102K1;F102KS/12;F102KE49T;F102KS02;
F102KE1;F102KE149T;F102K129/49T/105; F102K1P; F102KP1;
F102K31; F102K31A; F102K31P; F102K31T; F102K31T/32/33/34/35/36/A/T/P/S/X;
F102K31-1/A/B/P; F102K31A-1;F102K31A-2;F102K31-5/A/B/T/P
F103/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-/0/1/2/3/4/5/6/7/8/9/10/15/19/29/49/58/70/100/105/106/200;
F103X-C1;F103X1;F103X1-1/-5-6/-8/-18;F103H;F103M;F103BT/-1/-2;
F103M;F103M0;F103M/1/2/3/4/5/6/7/8/9/10/11/12/13/15; F103M-C32
F105/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F105/A/K/T/X/B/E;F105K-2A;F105T;
F107/A/B/T/-2/-3/-4/-5/-6/R/X;F107X/-/1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;F107T/-1/-2/-3/6/-11/A/B;
F114/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F115/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;F115MA;
F116/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F118/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F118R;F118RT;F118P;F118E;F118X;
X-F01/02/03/18/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/29/15/6/21/66/49/70/90;;etc
F315/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F316/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F318/A/B/C/D/E/H/K/L/M/N/P/Q/R/T/X/-/1/2/3/4/5/6/7/8/9/10/15/18/21/29/49/66/70/90;
F318R-2/A/B/C/E/H/K/N/T/D/X/M/L/Q/-/1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;
F318R-2/A/B/C/E/H/K/N/T/D/X/M/L/Q/-/1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;
F318R-3/A/B/C/E/H/K/N/T/D/X/M/L/Q/-/1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90/320/321;
F318R-6/A/B/C/E/H/K/N/T/D/X/M/L/Q/-/1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;
F318R-6/A/B/C/E/H/K/N/T/D/X/M/L/Q/-/1/2/3/4/5/6/7/8/9/29/5/15/6/21/66/49/70/90;
F318R-2; F318R-2A; F318-2M49;F318R-2NT;F318RH-3-1;
F318R-3;F318R-3 改 C;F318R-3NT; F318R-5; F318R-6; F318R-7;F315-4A0;
F318R;F318RK;F318R-320/A/B/H/K/M/T/X;F318R-321/A/B/H/K/M/T/X;
F302/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-/1/2/3/4/5/6/7/8/9/10/11/12/13/15/16/17/18/19/20/29/49/70/105/106;
F302B; F302BD; F302B-2; F302BD-2;
F303/A/B/C/D/E/H/K/L/M/N/P/Q/R/S/X/T/-/1/2/3/4/5/6/7/8/9/10/11/12/13/15/16/17/18/19/20/29/49/70/105/106;
E100;ED100;EDT100; EDT100X;EDX100;F303-2ND;
E200;ED200;EDT200;EDT200X; EDX200;
E58; E58-1BN;ED58;EDT58;EDT58X;
;etc)

Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2250132659102001.

Test Report

No.: SZXEC25002253903

Date: Jul 11, 2025

Page 1 of 8

Client Name: DONGGUAN HONGDING TECHNOLOGY CO., LTD.

Client Address: 1101, FLOOR 11, BUILDING D1, HANQUAN SCIENCE AND TECHNOLOGY PARK, NO.36,YUCHENG RD,SHATOU COMMUNITY, CHANG`AN TOWN, DONGGUAN CITY

Sample Name: LED

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-031915

Sample Receiving Date: Jun 24, 2025

Testing Period: Jun 24, 2025 ~ Jun 30, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results
Halogen	See Results

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SZX25-0022539-0001.C003	"LED"(Mixed)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A3
Lead (Pb)	mg/kg	2	6
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybrominated biphenyls (PBB)	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	mg/kg	25	ND



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Test Report

No.: SZXEC25002253903

Date: Jul 11, 2025

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Test Item(s)	Unit(s)	MDL	A3
Nonabrominated diphenyl ether (NonaBDE)	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Dibutyl Phthalate (DBP)	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	mg/kg	50	ND

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A3
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	167
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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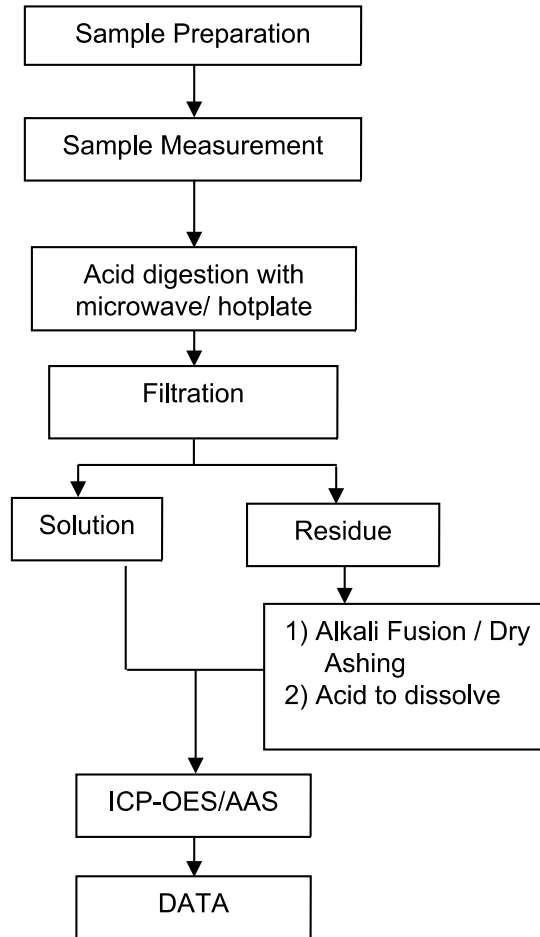
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



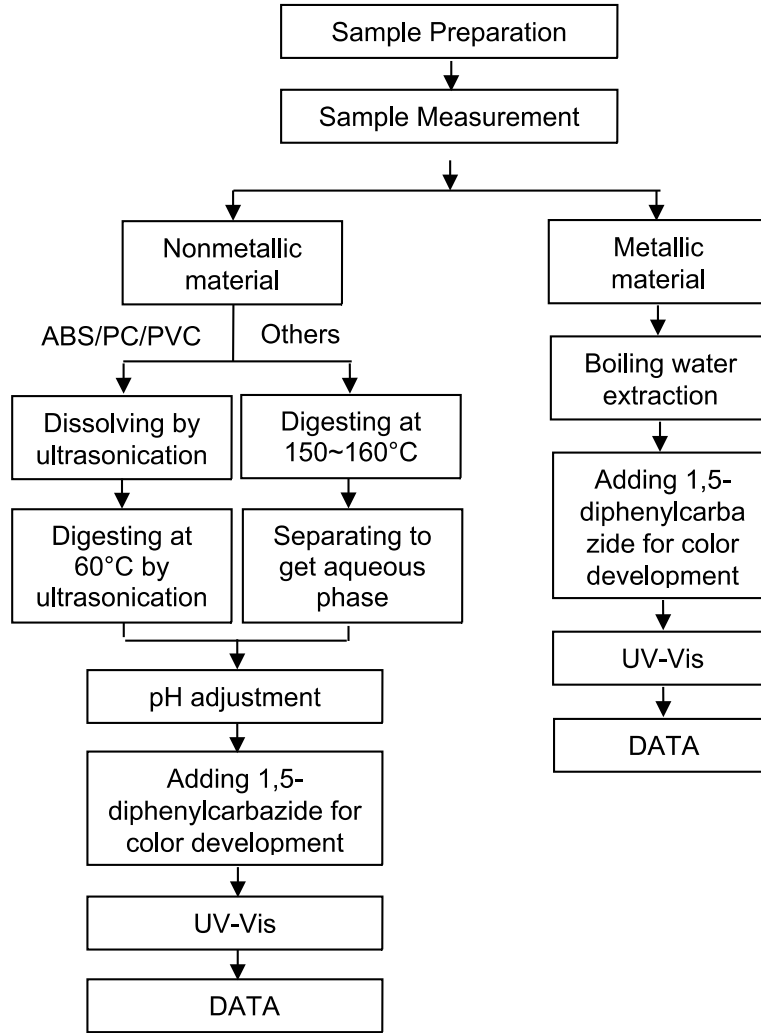
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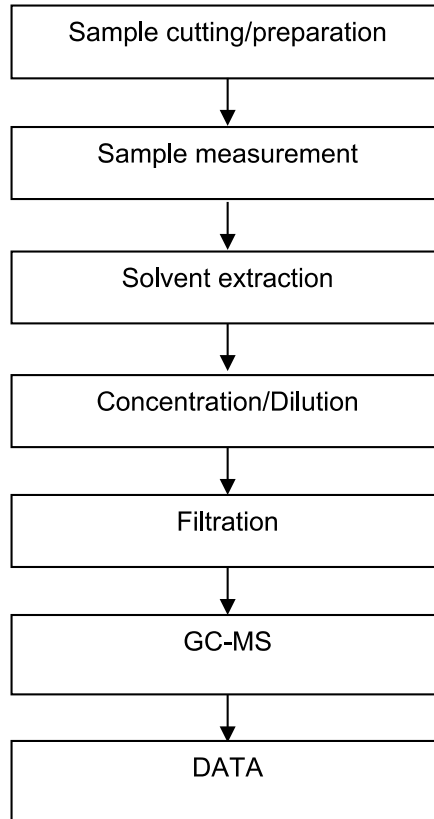
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



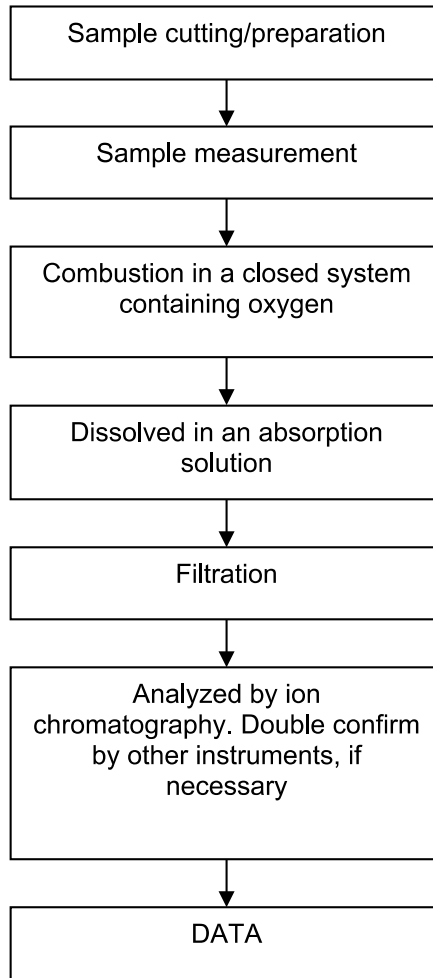
PBB/PBDE/Phthalates Testing Flow Chart



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Halogen Testing Flow Chart



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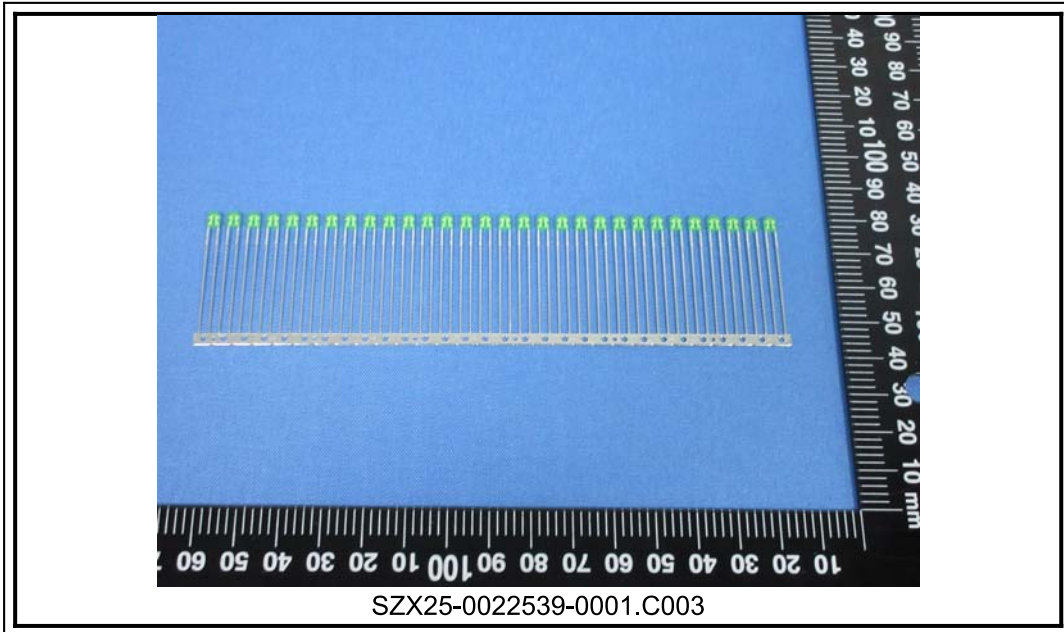
Test Report

No.: SZXEC25002253903

Date: Jul 11, 2025

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Sample Photo:



SGS authenticate the photo on original report only
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Test Report

No.: SZXEC25002253902

Date: Jul 11, 2025

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Client Name: DONGGUAN HONGDING TECHNOLOGY CO., LTD.

Client Address: 1101, FLOOR 11, BUILDING D1, HANQUAN SCIENCE AND TECHNOLOGY PARK,
NO.36,YUCHENG RD,SHATOU COMMUNITY, CHANG`AN TOWN, DONGGUAN CITY

Sample Name: LED

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-031915

Sample Receiving Date: Jun 24, 2025

Testing Period: Jun 24, 2025 ~ Jun 30, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results
Halogen	See Results

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	SZX25-0022539-0001.C002	"LED"(Mixed)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A2
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybrominated biphenyls (PBB)	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	mg/kg	25	ND



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Test Report

No.: SZXEC25002253902

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Test Item(s)	Unit(s)	MDL	A2
Nonabrominated diphenyl ether (NonaBDE)	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Dibutyl Phthalate (DBP)	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	mg/kg	50	ND

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A2
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	89
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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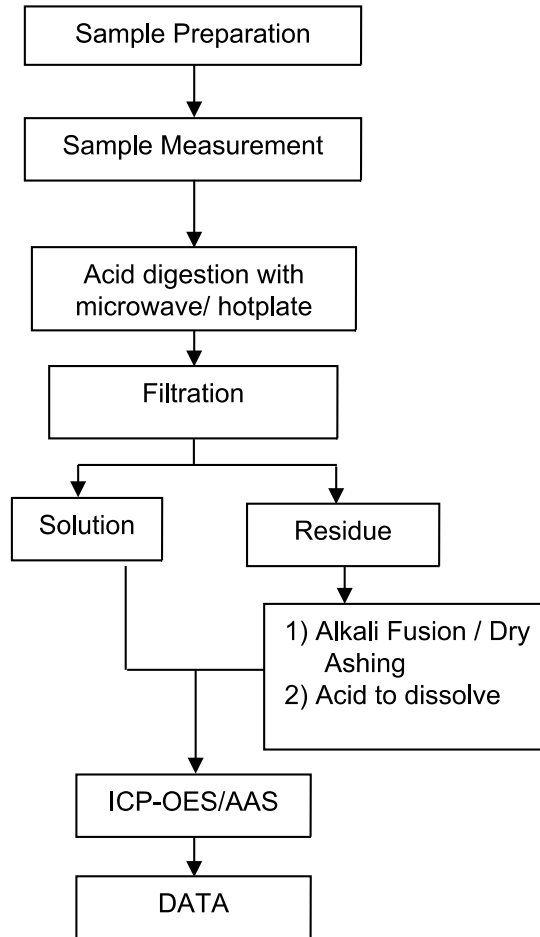
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Shenzhen Branch

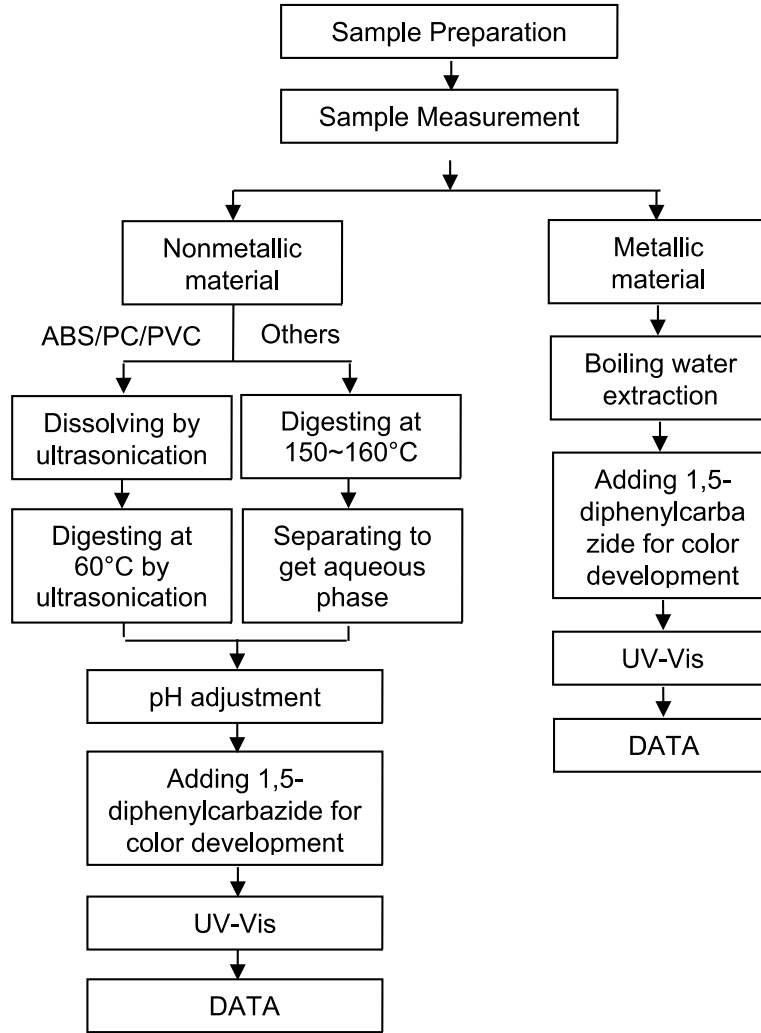
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Elements Testing Flow Chart

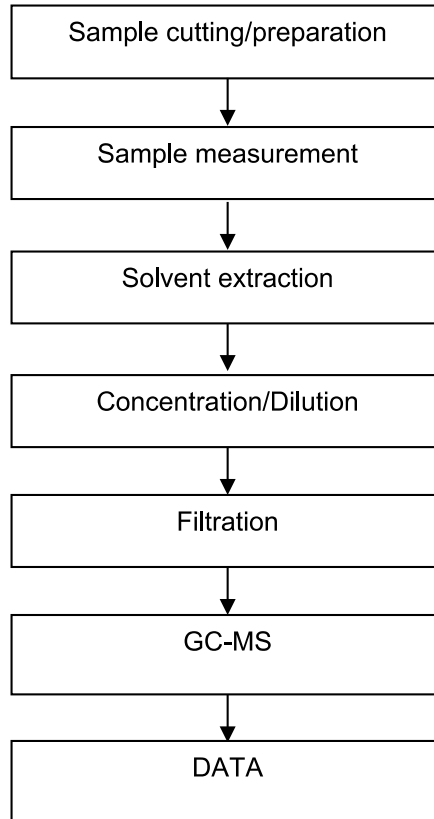
These samples were dissolved totally by pre-conditioning method according to below flow chart.



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



PBB/PBDE/Phthalates Testing Flow Chart



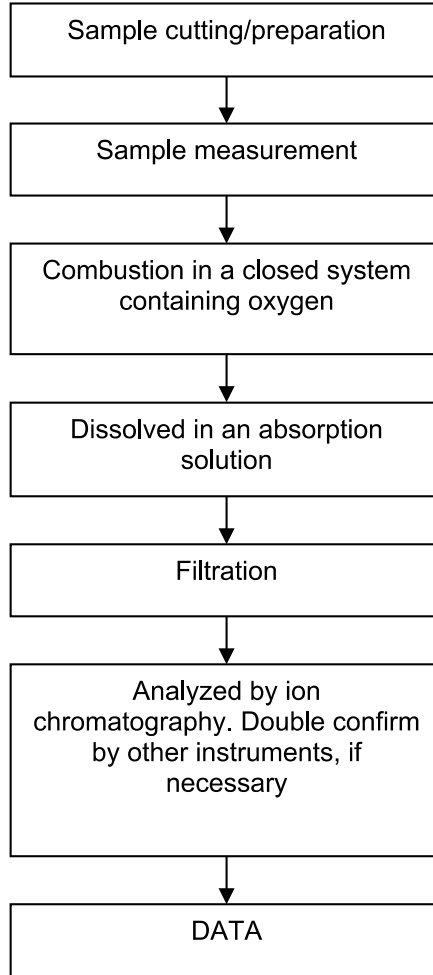
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Halogen Testing Flow Chart



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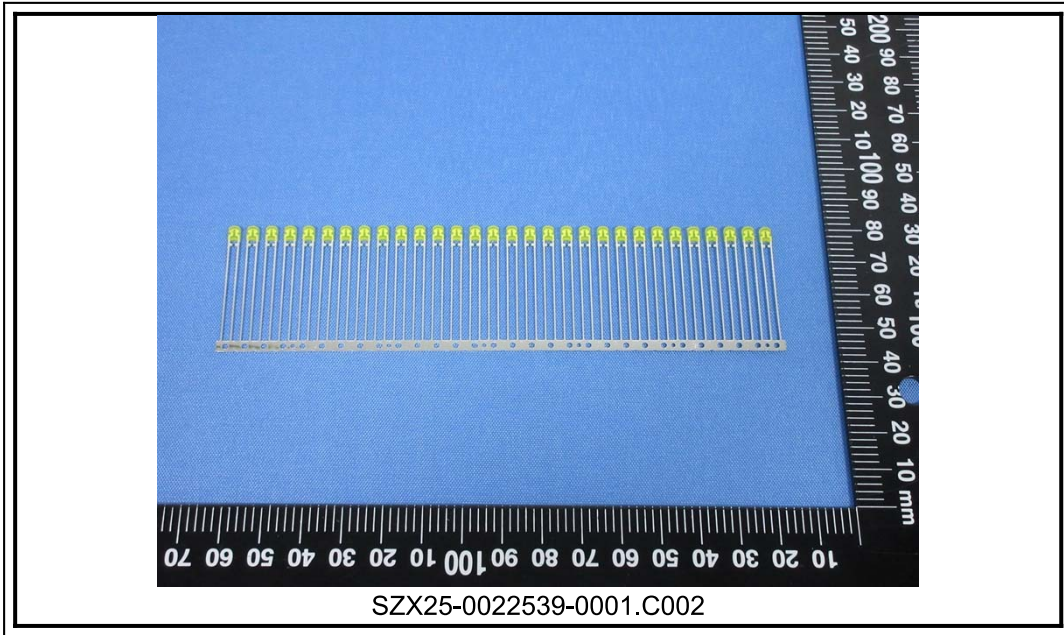
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Sample Photo:



SGS authenticate the photo on original report only
*** End of Report ***



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Test Report (SVHC)

No.: SZXEC25002253901

Date: Jul 11, 2025

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Client Name: DONGGUAN HONGDING TECHNOLOGY CO., LTD.

Client Address: 1101, FLOOR 11, BUILDING D1, HANQUAN SCIENCE AND TECHNOLOGY PARK,
NO.36,YUCHENG RD,SHATOU COMMUNITY, CHANG'AN TOWN, DONGGUAN CITY

Sample Name: LED

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-031915

Sample Receiving Date: Jun 24, 2025

Testing Period: Jun 24, 2025 ~ Jun 30, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
(i) Two hundred and fifty (250) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 25, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH.
As requested by client, Potential SVHC screening is performed according to:
(i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing.
(ii) Five (5) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

According to the specified scope and evaluation screening, the results of 250 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the results of 6 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

May

May Bei
Approved Signatory

Scan to see the report



FD104CBF



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

- 2.1 Concerning article(s):

- Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

- 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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Test Report (SVHC)

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Date: Jul 11, 2025

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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Yellow plastic+green plastic+blue plastic+red plastic+orange plastic	A1	SZX25-0022539-0001.C001

Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Result of SVHC in the Candidate List

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
VIII	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.053	0.050
-	Other SVHC in Candidate list	-	ND	-

Result of Potential SVHC

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All Potential SVHC	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).
- (5) / = Potential SVHC
- (6) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Anthracene oil**	90640-80-5	0.050
II	18	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	19	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	20	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	21	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	22	Diisobutyl phthalate	84-69-5	0.050
II	23	Lead chromate*	7758-97-6	0.005
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	26	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	27	Tris(2-chloroethyl)phosphate	115-96-8	0.050
II	28	Acrylamide	79-06-1	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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**Test Report
(SVHC)**

No.: SZXEC25002253901

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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosfluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosfluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosfluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosfluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
XXXIII	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
XXXIII	249	Decamethyltetrasiloxane	141-62-8	0.050



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XXXIII	250	tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[4-chloro-6-({2-[(4-fluoro-6-{{4-(vinylsulfonyl)phenyl}amino)-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino)-5-sulfonato-1-naphthyl]diazenyl]-5-methoxyphenyl}diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	-	0.100
/	251	Resorcinol	108-46-3	0.050
/	252	Dodecamethylpentasiloxane	141-63-9	0.050
/	253	n-hexane	110-54-3	0.050
/	254	4,4'-methylenediphenol (BPF)	620-92-8	0.050
/	255	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF) and its salts	-	0.050
/	256	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE)	84852-53-9	0.050



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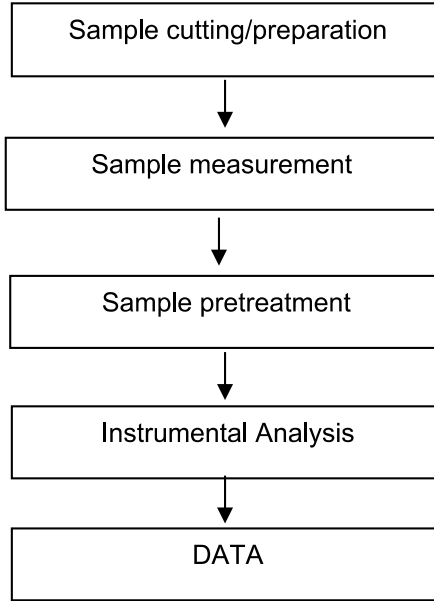
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ATTACHMENTS

Testing Flow Chart



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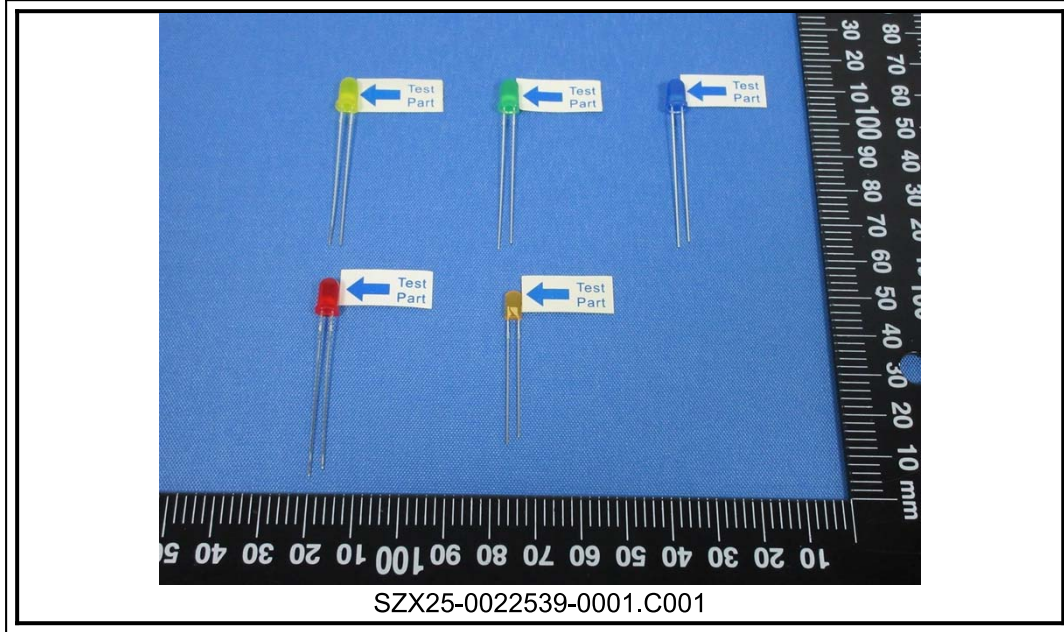
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Sample photos:



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