



# 产品承认书

SPECIFICATION FOR APPROVAL

客户名称: \_\_\_\_\_

(Customer Name)

客户料号: \_\_\_\_\_

(Customer P/N)

品名规格 \_\_\_\_\_ CKX-3.5-67B

(Specification) \_\_\_\_\_

产品料号: \_\_\_\_\_ 704-06700003-A

(P/N)

日期: \_\_\_\_\_ 2020.09.24

(DATE)

版本: \_\_\_\_\_ A

(REV)

公司签核 (Signature)	业务(Sales)	工程(Engineering)	品质(QC)
	涂登军	付华军	黄敏

客户签核 (Cust. Signature)			

中国 浙江松成电子有限公司

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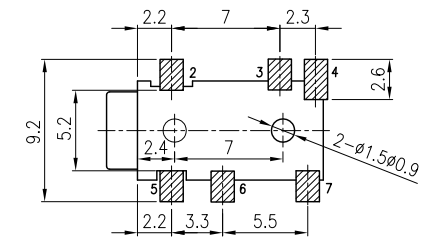
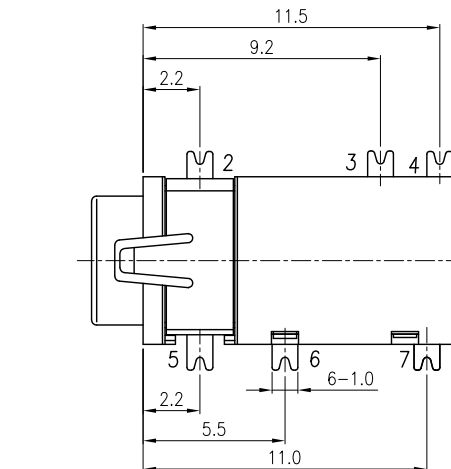
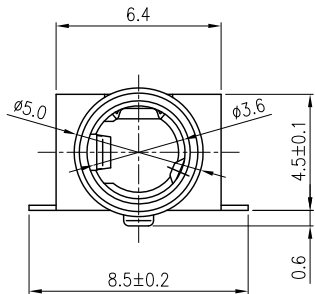
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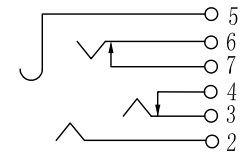
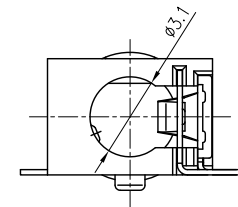
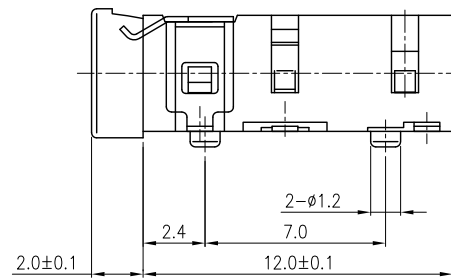
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REV.	ECN NO OR DESCRIPTION	REVISED	DATE
A		Fuhuajun	2017.05.26



PCB. 端子尺寸图  
TOP VIEW

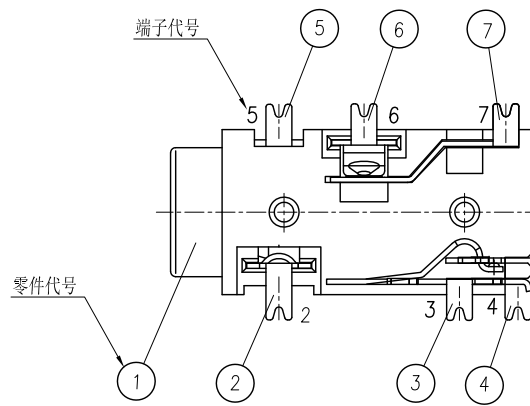


电路图

- SPECIFICATIONS:
- ELECTRICAL CHARACTERISTICS:
    - 1-1. RATING: 30V, 1.0A Min.
    - 1-2. CONTACT RESISTANCE: 30 mΩ Max.
    - 1-3. INSULATION RESISTANCE: 100 MΩ Min.
    - 1-4. DIELECTRIC WITHSTANDING VOLTAGE: 500V RMS AFTER 1 MINUTE.
  - MECHANICAL CHARACTERISTICS:
    - 2-1. INSERTION FORCE : 40N Max.
    - 2-2. WITHDRAWAL FORCE : 4-40N
  - LIFE TEST: 5,000 CYCLES MIN.
  - ENVIRONMENTAL:

TEMPERATURE RANGE: -40°C TO +85°C

SALT SPRAY: 24H
  - PART MUST COMPLY ROHS SPECIFICATION.

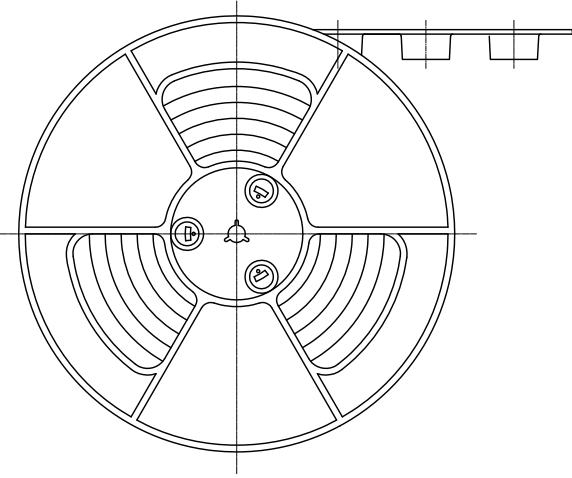


7	左定片端子(7#)	1	QSn6.5-0.1锡青铜带 δ=0.20mm	D. LI Ag
6	左簧片端子(6#)	1	镀青铜带 t=0.20mm	D. LI Ag
5	上接触端子(5#)	1	QSn6.5-0.1锡青铜带 δ=0.20mm	D. LI Ag
4	右定片端子(4#)	1	QSn6.5-0.1锡青铜带 δ=0.20mm	D. LI Ag
3	右簧片端子(3#)	1	镀青铜带 t=0.20mm	D. LI Ag
2	右接触端子(2#)	1	QSn6.5-0.1锡青铜带 δ=0.20mm	D. LI Ag
1	基座	1	PPA	黑色
NO.	DESCRIPTION	QT'Y	MATERIAL	PLATING & COLOR

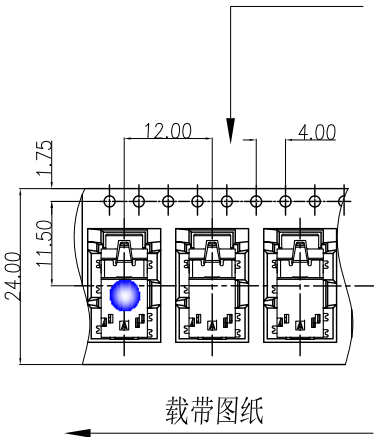
UNLESS OTHERWISE SPECIFIED TOLERANCES		浙江松成电子有限公司 ZHEJIANG SONGCHENG ELECTRONICS CO.,LTD.		
DECIMALS:	ANGLES:	NAME	CKX-3.5-67B	
X. :±0.50	X. :±3°	DWN 付华军	PART NO.	704-06700003-A
X.X :±0.30	X.X :±2°	CHKD	SCALE: 1:1	UNIT: MM
X.XX :±0.20		APVD	SIZE: A4	SHEET: 1 OF 1
		CUSTOMER COPY		
		REV: A		

REV.	ECN NO OR DESCRIPTION	REVISED	DATE
A		FuhuaJun	2018.09.30

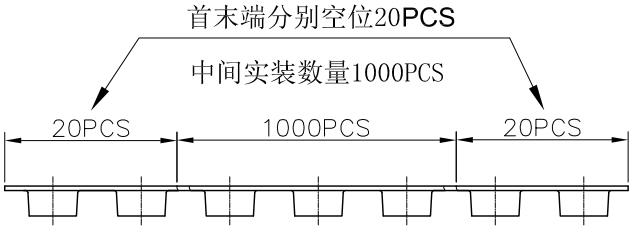
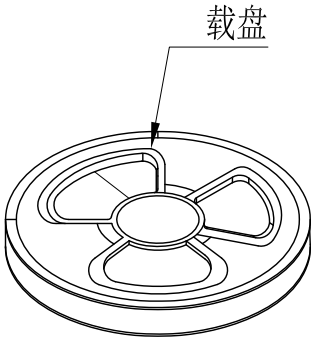
载带引出方向  
\* 载带包装时请依此引出方向为标准



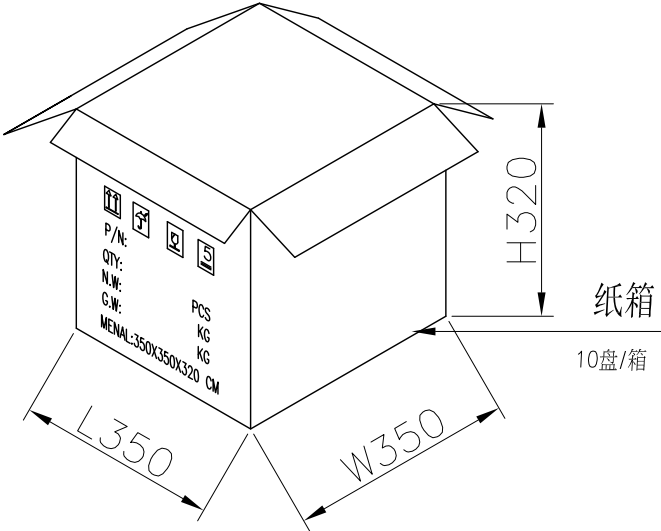
卷盘包装示意



载带图纸




首末端分别空位20PCS  
中间实装数量1000PCS



- 备注:
1. 把检验好的产品一一放入卷盘内, 方向需一致. 将装好产品的载带进行包装, 机 . 每盘数量共1000PCS /卷. 每卷中间需贴上产品标签1PC. (如图所示).
  2. 将装好产品之卷盘平放入纸箱内, 叠加方向须一致, 共10卷/箱. 用封箱胶纸封好纸箱 (共10, 000Pcs/箱), 并在外箱侧面右上角贴上外箱标签1PC. (如图所示)
  3. 如出现尾数或有未装满之零数量, 须在卷盘及外箱上以标签明示.
  4. 在搬运及运输中, 轻拿轻放, 不可有重压现象.
  5. 盖带的剥离力要求: 20-130gf.

PACKING INFORMATION	
PART NAME	PACLING SPEC
QUANTITY OF PER REEL	1000PCS/REEL
QUANTITY OF PER CARTON	10*1000=10,000PCS/CARTON

UNLESS OTHERWISE SPECIFIED TOLERANCES		浙江松成电子有限公司 ZHEJIANG SONGCHENG ELECTRONICS CO.,LTD.			
DECIMALS:	ANGLES:	NAME	CKX-3.5-67B		
X. :±0.30	X. :±2°	DWN	付华军	PART NO.	BZGF-CKX-3.5-67B
X.X :±0.20	X.X :±1°	CHKD		SCALE: 1 : 1	UNIT: MM
X.XX :±0.10		APVD		SIZE: A4	SHEET: 1 OF 1
ENGINEERING COPY					


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		QEW-SC-GE- 013	2015.08.30	1/10

**PRODUCT SPECIFICATION**

**产 品 规 格 书**

..					
3					
2					
1	A	The New Version Issued 新版发行	/	2015.08.30	Ryan
NO. 序号	REV. 版本	Description Of Change 变更描述	Remarks 标记	Date 日期	Modifier 修改人
Prepared: 制 定:	Ryan	Checked by: 审 核:	赖存发	Approved by: 核 准:	余曙光



	<b>2.5 / 3.5 PHONE JACK</b>	<b>Document No.</b>	<b>DATE</b>	<b>SHEET</b>
		<b>QEW-SC-GE- 013</b>	<b>2015.08.30</b>	<b>2/10</b>

#### 1.0: SCOPE: 适用范围

This specification is applied to the requirements for 2.5 / 3.5 PHONE JACK CONNECTOR. This specification covers the materials, ratings, electrical, mechanical and environmental performance of the applicable product description and test method .

本规范适用 2.5 / 3.5 PHONE JACK CONNECTOR 连接器。内容包括：物料规格、产品规格及电气特性、机构特性、环境特性及测试方式。

#### 2.0: Parts No 零件编号: (2.5 / 3.5 PHONE JACK CONNECTOR Series)

#### 3.0: Product Shape, Dimensions and Material: To meet the drawing.

(产品形状, 尺寸及材料: 符合图面)

#### 4.0: PROPERTY: 特性

##### 4.1 RATING: 等级

###### 4.1.1 Current rating: 1.0 A

电流等级: 1.0A

###### 4.1 .2 Rated voltage: 30V DC

额定电压: 30V DC

###### 4.1 .3 Temperature range: -40 °C ~ +80 °C

温度范围: -40 °C ~ +80 °C

###### 4.1 .4 Relative humidity: 95%Maximum (non-condensing)

相关湿度: 95% Max, (非压缩性湿度)

##### 4.2 MATERIALS: 材料

###### 4.2.1 Housing: Temperature Plastic

塑胶: 热塑性塑料

###### 4.2.2 Terminal: Copper Alloy; Plating:

Ag plating all over Ni under-plated or CuSn pated all.

端子: 铜合金, 电镀规格: 整体镀银或者整体镀铜锡

###### 4.2.3 Harmful Material Should Be Compliant to Doc. "RoHS II Directive 2011/65 /EU." Standards.

有害物质符合文件"RoHS II Directive 2011/65 /EU."标准。符合 Reach 法规。


#### 5.0: Test Condition 测试条件:

##### 5.1 Temperature range: 20°C±5°C

温度范围: 20°C±5°C


##### 5.2 Humidity range: 25%~85%

湿度范围: 25%~85%

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6.0: Test Methods and Requirements 测试方法及测试要求:

<b>6.1 Examination of product: 产品外观</b>			
Item 项目	Test Description 测试内容描述	Test Methods 测试方法	Requirement 规格要求
6.1.1	Visual and dimensional Inspection 外观尺寸检查	Visualize and Measuring (EIA-364-18) 目视和测量	Dimensions must be within specification of assembly and customer drawing. All components shall be properly assembled and free of burrs, Warpages, scratches, broken chips, and other abnormalities. 尺寸必须符合产品图纸要求。所有部件应正确组装、无毛刺，划痕，翘曲，碎片，和其他异常。
<b>6.2 Electrical Performance 电气特性</b>			
Item 项目	Test Description 测试内容描述	Test Methods 测试方法	Requirement 规格要求
6.2.1	Contact Resistance 接触阻抗	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. (EIA 364-23) 配合好： 用回路测试，电流及电压设定： 20mV Max,100mA.	Contact resistance excluding conductor: 30 mΩ Max. 接触阻抗规格（不包括导体阻抗）： 30 mΩ Max.
6.2.2	Insulation Resistance 绝缘阻抗	Unmate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground (EIA 364-21) 不和公头配合（单体测试）： 用 500V 直流电测试相邻的端子与接地脚.	100MΩ Min

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6.2.3	Dielectric Withstanding Voltage: 耐电压:	Unmated connectors, apply 500 V AC for 1 minute between adjacent terminal or ground. (EIA 364-20) 不和公头配合（单体测试）： 在相邻的端子及接地脚之间通 500V 交流电，持续 1 分钟	No breakdown current leakage < 0.5 mA 无击穿 漏电流 < 0.5 mA
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### 6.3 Mechanical Performance 机械特性


Item 项目	Test Description 测试内容描述	Test Methods 测试方法	Requirement 规格要求
6.3.1	Mating Force 插入力	Mating at the speed rate of 25±3mm per minute. (EIA-364-13) 测试速度要求：25±3mm/分	Insertion Force: 40N Max. 插入力：40N Max
6.3.2	Unmating Force 拔出力	Unmating at the speed rate of 25±3mm per minute. (EIA-364-13) 测试速度要求：25±3mm/分	unmating force：4-40N 拔出力：4-40N
6.3.3	Durability 耐久测试	Insertion and extraction are repeated 5,000 cycles at the speed rate of 500 -600 cycles/hour. (EIA-364-9C) 使用500-600循环/每小时的速度进行插拔测试，测试耐久 5000 次。	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值： 端子：30mΩ Max

### 6.4 Environmental performance and others 环境特性和其它特性

Item 项目	Test Description 测试内容描述	Test Methods 测试方法	Requirement 规格要求
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6.4.1	Vibration 振动	Subject mated connectors to 5.35 G' s rms .15 minutes in each of 3 mutually perpendicular planes (EIA 364-28) 配合好连接器在频率为 5.35 G' s rms 的推荐下，在 3 个相互垂直的平面上各振动 15 分钟	Appearance 外观	No Damage 无明显损害
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值: 端子: 30mΩ Max
			Discontinuity 断讯测试	1 microsec.Max. 规格: 1us Max
6.4.2	Shock 冲击	Pulse width: 11msec, Waveform: half sine,(30G),3 shocks in each direction applied along three mutually perpendicular planes, 18 total shock. (EIA-364-27) 脉冲宽度: 11ms, 波形: 半正弦, (30G), 每轴上冲击 3 次 (X, Y, Z 轴) 总次数: 18 次	Appearance 外观	No. Damage. 不明显损害
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值: 端子: 30mΩ Max
			Discontinuity 断讯测试	1 microsec. Max 规格: 1us Max
6.4.3	Thermal Shock 冷热冲击	10 cycles of: -40℃ for 30 minutes +85℃ for 30 minutes (EIA-364-32, Condition I ) 循环次数: 10 次 循环时间: -40℃ 30 分钟 +85℃ 30 分钟	Appearance 外观	No. damage 没有明显损害
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值: 端子: 30mΩ Max
6.4.4	Humidity	Mate connectors together And perform the test as Follows.	Appearance 外观	No. damage 没有明显损害

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	湿度	Temperature: 25 to +65℃ Relative Humidity: 80 to 95% Duration: 4 cycles (96 hours) (EIA-364-31) 配合好然后执行下面的测试: 温度: +25 to +65℃ 相关湿度: 80% ~ 95% 测试时间: 4 个循环 (96 小时)	Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值: 端子: 30mΩ Max
6.4.5	High temperature storage test 高温储存测试	In accordance with MIL-STD-202 test Method 108A.condition B.leave the connector in a test chamber at 70℃for 96 hours,measure the sample before the start of test and after completion outside the chamber for between one and two hours  1. 测试方法根据标准 MIL-STD-202 108A 条件为 B 2. 测试前测试接触阻抗, 绝缘阻抗 3. 将产品放置在 70 度高温, 时间为 96 小时 4. 测试后将产品放在室温下 1-2 小时后再对产品进行接触阻抗和绝缘阻抗测试	Appearance 外观	No Damage 没有明显的损害
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值: 端子: 30mΩ Max
			Insulation Resistance 绝缘阻抗	100MΩ Min
6.4.6	Low temperature storage test 低温储存测试	In accordance with JIS C0020.Leave the connector in a test chamber at -40℃ for 96hours measure the sample before the start of the after completion. Outside the chamber for between one and two hours water drops shall be rewoved 根据标准 JIS C0020 1.测试前测试接触阻抗, 绝缘阻抗	Appearance 外观	No Damage 没有明显的损害
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变化值: 端子: 30mΩ Max



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		2.将产品放置在-40 度低温，时间为 96 小时 3.测试后将产品放在室温下 1-2 小时后 再对产品进行接触阻抗和绝缘阻抗测试，产品上不准有水珠.	Insulation Resistance 绝缘阻抗	100MΩ Min
6.4.7	K2S test 硫化测试 (镀银件)	Temperature :40+/-2℃ Concentration: 2% (weight) Relative Humidity: 80 -85% Duration:4 Min. 测试温度： 40+/-2℃ 浓度： 2% 相对湿度： 80 -85% 时间： 4 分钟 (测试后接触阻抗测试：清洗后放入 150 度的烤箱烘烤 30 分钟后测试)	Appearance 外观	No Damage/ discolour 没有明显的损害和 变色
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变 化值: 端子: 30mΩ Max
			Insulation Resistance 绝缘阻抗	100MΩ Min
6.4.8	Salt Spray 盐雾测试	Temperature :35+/-2℃ Concentration: 5% (weight) Duration:24H (ANSI/EIA-364-26B) 测试温度： 35+/-2℃ 浓度： 5% 时间： 24小时。	Appearance 外观	No Damage 没有明显的损害
			Contact Resistance 接触阻抗	Change from initial value: Contact: 30mΩ Max.. 测试后接触阻抗变 化值: 端子: 30mΩ Max

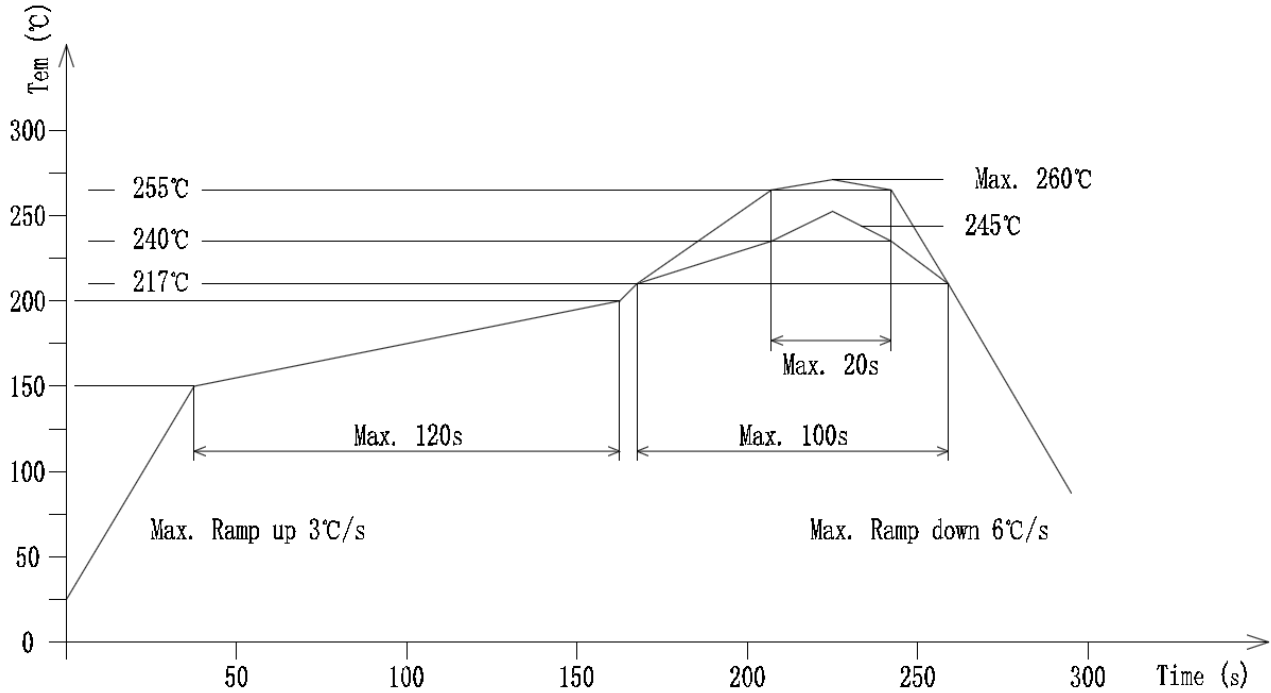
	<b>2.5 / 3.5 PHONE JACK</b>	Document No.	DATE	SHEET
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6.4.9	Solder- ability 可焊性	Dip solder tails into the molten solder (held at $250 \pm 5^{\circ}\text{C}$ ) up to 1.2 mm from the bottom of the housing for $3 \pm 1$ seconds. (EIA- 364-52) 焊锡脚浸入在锡炉下（温度 $250 \pm 5^{\circ}\text{C}$ ），浸入深度：从塑胶底部 1.2mm，时间： $3 \pm 1$ 秒	Solder wetting 锡炉	95% of immersed area must show no voids, pin holes. 效果确认： 焊锡面积达到 95% 以上，无斑点，无针孔或缝隙
6.4.10	Resistance to soldering heat 焊锡耐热性	(Lead - Free) 具体参考 7.图 1、图 2 $260 \pm 5^{\circ}\text{C}$ 5s Min	No damage 无明显损伤，焊接良好,外观 OK.	

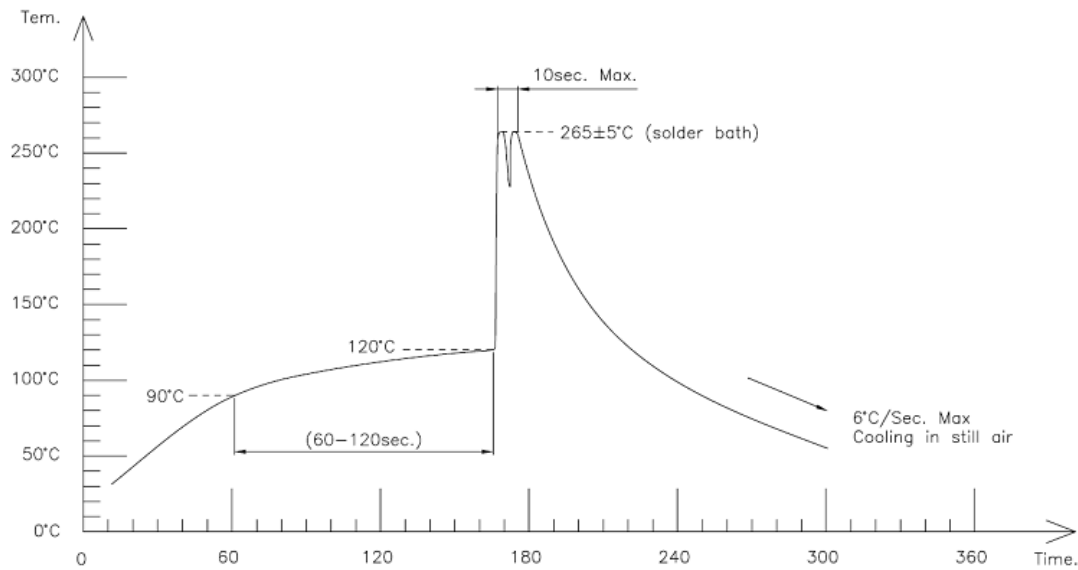
	<b>2.5 / 3.5 PHONE JACK</b>	Document No.	DATE	SHEET
		QEW-SC-GE- 013	2015.08.30	9/10

7: RECOMMENDED INFRARED REFLOW CONDITION & WAVE SOLDERING CONDITION.

回流焊和波峰焊温度曲线推荐: (无铅焊接)




(图 1: 回流焊推荐曲线) - 参考 IPC/JEDECJ-STD-020C



(图 2: 波峰焊推荐曲线) - 参考 JESD22-B106C



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8: PRPDUCT QUALIFICATION AND TEST SEQUENCE (产品群组测试序列)

Test project Test group	Test group											
	A	B	C	D	E	F	G	H	I	J	K	L
	Test order (a)											
Visual and dimensional Inspection	1,6,10	1,3	1,6,9	1,4,6	1,3,5	1,4,6	1,5	1,5	1,5	1,3	1,3	1,3
Contact Resistance	2,7		2,7		2,4	2,5	2,6	2,6	2,6			
Insulation Resistance			3,8				3,7	3,7	3,7			
Dielectric Withstanding Resistance				2,5								
Insertion force	3,8											
Withdrawal force	4,9											
Durability	5											
Vibration			4									
Shock			5									
Thermal Shock					3							
Humidity				3								
High temperature storage test							4					
Low temperature storage test								4				
K2S test									4			
Salt Spray										2		
Solder-ability											2	
Resistance to soldering heat												2
Quantity	5	5	5	5	5	5	5	5	5	5	5	5

NOTE:(a) Numbers indicate sequence in which tests are performed.



# 检测报告 Test Report

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Report No. A2200059294103E

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申请单位 温州锦优塑料有限公司  
Applicant WENZHOU JINYOU PLASTIC LTD, CO;  
地 址 浙江省乐清市石帆镇街道朴湖一村  
Address PUHU VILLAGE SHIFAN TOWN YUEQING CITY ZHEJIANG

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 client

样品名称	高温尼龙
Sample Name	High-temperature nylon
客户参考信息	AH-4120 AH-4130 AH-4135 AH-4140 AH-4150
Client Reference Information	AH-4120 AH-4130 AH-4135 AH-4140 AH-4150
样品颜色	白色
Color	white
样品接收日期	2020.03.23
Sample Received Date	Mar. 23, 2020
样品检测日期	2020.03.23-2020.04.01
Testing Period	Mar. 23, 2020 to Apr. 1, 2020

## 检测要求

1. 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)), 多溴联苯(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), 多环芳烃(PAHs)进行测试。  
2. 根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 205 种高关注物质(SVHC)进行筛选测试。

## Test Requested

1. 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), Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample(s).  
2. As specified by client, to screen the 205 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH 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).

主 检  
Tested by

江国栋

审 核  
Reviewed by

郭世荣

批准  
Approved by

张琳

日 期  
Date

2020.04.01

张琳

技术经理 Technical Manager

No. B311141915

宁波高新区菁华路 76 号厂区东首第一、二层

Centre Testing International (Ningbo) Co., Ltd.

1-2F, Eastern Factory, No.76, Jinghua Road, High-Tech Zone, Ningbo, Zhejiang, China

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## 1 结论 1 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.

## 2 摘要

### 2 Summary

根据分析结果, 所提交样品中 205 种 SVHC 物质的浓度均小于 0.1%(w/w)。  
According to the analytical results, concentrations of 205 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

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## 1.1 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
氟 Fluorine (F)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine (Cl)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2014:01 PAK	GC-MS

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## 1.2 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
铅 Lead (Pb)	8 mg/kg	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
<b>多溴联苯 Polybrominated Biphenyls(PBBs)</b>			
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
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>			
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
<b>邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)</b>			
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
氟 Fluorine (F)	690 mg/kg	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

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
<b>多环芳烃(PAHs)Polycyclic Aromatic Hydrocarbons (PAHs)</b>		
萘 Naphthalene	N.D.	0.2 mg/kg
苊烯 Acenaphthylene	N.D.	0.2 mg/kg
苊 Acenaphthene	N.D.	0.2 mg/kg
芴 Fluorene	N.D.	0.2 mg/kg
菲 Phenanthrene	N.D.	0.2 mg/kg
蒽 Anthracene	N.D.	0.2 mg/kg
荧蒽 Fluoranthene	N.D.	0.2 mg/kg
芘 Pyrene	N.D.	0.2 mg/kg
苯并(a)蒽 Benzo(a)anthracene	N.D.	0.2 mg/kg
蒾 Chrysene	N.D.	0.2 mg/kg
苯并(b)荧蒽 Benzo(b)fluoranthene	N.D.	0.2 mg/kg
苯并(k)荧蒽 Benzo(k)fluoranthene	N.D.	0.2 mg/kg
苯并(a)芘 Benzo(a)pyrene	N.D.	0.2 mg/kg
茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene	N.D.	0.2 mg/kg
二苯并(a,h)蒽 Dibenzo(a,h)anthracene	N.D.	0.2 mg/kg
苯并(g,h,i)芘 Benzo(g,h,i)perylene	N.D.	0.2 mg/kg
苯并(j)荧蒽 Benzo(j)fluoranthene	N.D.	0.2 mg/kg
苯并(e)芘 Benzo(e)pyrene	N.D.	0.2 mg/kg
苊烯,苊,芴,菲,蒽,荧蒽,芘总量 Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
18PAHs 总量 Sum 18 PAHs	N.D.	/

样品/部位描述 浅绿色塑料颗粒  
 Sample/Part Description Light green plastic grains

备注: 对于检测铅, 镉, 汞之样品已完全溶解。  
 -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%

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可接触的表面材料中 PAHs 含量限值(mg/kg)(按风险分析的结果分类)

Limits for PAHs content (mg/kg) for material of (grip) surfaces, which are to be categorized on account of the results of the risk analysis.

参数 Parameters	一类 Category 1	二类 Category 2		三类 Category 3	
	可放入口中的材料，或预期和皮肤长时间接触的玩具材料（超过 30 秒） Materials intended to be put in the mouth or materials of toys with foreseeable long-term skin contact(longer than 30 seconds)	未包含在第一类材料中，预期和皮肤接触时间超过 30 秒（长时接触），或者和皮肤反复短时间接触的材料 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact #		未包含在第一类和第二类材料中，预期和皮肤接触时间不超过30秒（短时接触）的材料Materials not covered by category 1 or 2 with foreseeable skin contact up to 30seconds (short term skin contact)	
		2009/48/EC 范围内的玩具 Toys covered by Directive 2009/48/EC	其他类产品 Other products	2009/48/EC 范围内的玩具 Toys covered by Directive 2009/48/EC	其他类产品 Other products
苯并[a]芘 Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
苯并[e]芘 Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
苯并[a]蒽 Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
苯并[b]荧蒽 Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
苯并[j]荧蒽 Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
苯并[k]荧蒽 Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
蒽Chrysene	<0.2	<0.2	<0.5	<0.5	<1
二苯并[a,h]蒽 Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
苯并[g,h,i]芘 Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1



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茚并[1,2,3-cd]芘 Indenol[1,2,3-cd]pyrene	<0.2	<0.2	<0.5	<0.5	<1
芘烯,芘,芴,菲,蒽,荧蒽,芘 Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene	总量<1 <1 Sum	总量<5 <5 Sum	总量<10 <10 Sum	总量<20 <20 Sum	总量<50 <50Sum
萘 Naphthalene	<1	<2		<10	
18PAHs 总量 Sum 18 PAHs	<1	<5	<10	<20	<50

# “短期重复接触皮肤”来自REACH法规附录XVII第50项的修订案(法规 (EU) No.1272/2013)  
Formulation “of repeated short-term skin contact” REACH Annex XVII No. 50 supplement  
(REGULATION (EU) No.1272/2013)

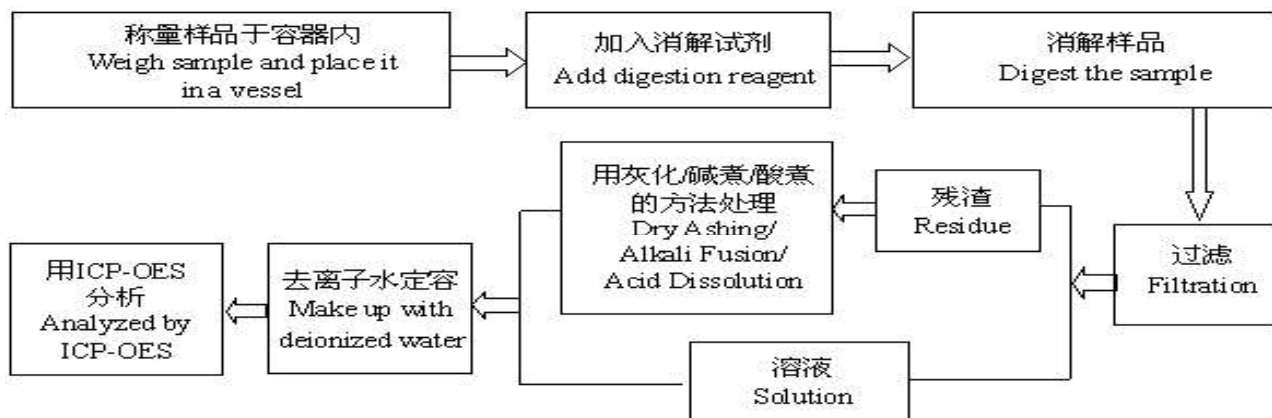
# 检测报告 Test Report

报告编号 A2200059294103E  
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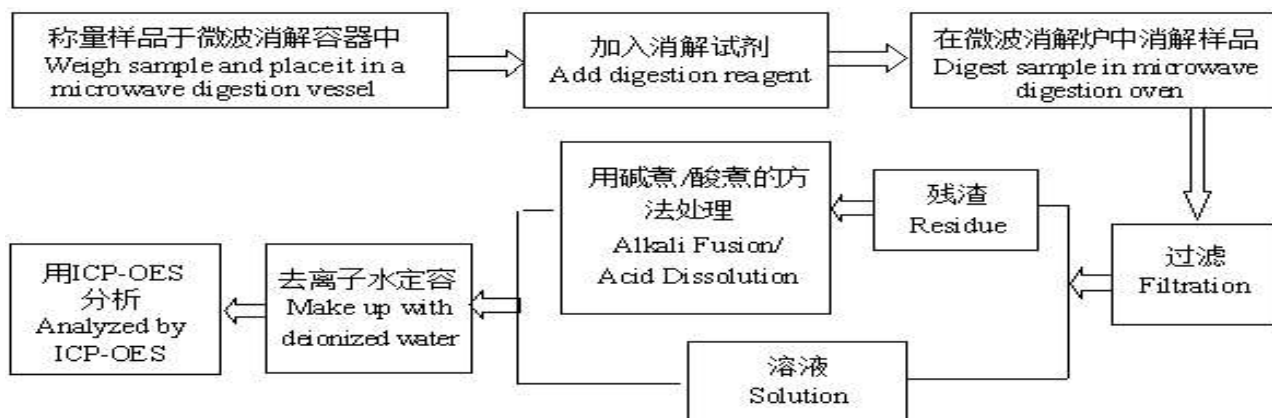
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## 1.3 检测流程 Test Process

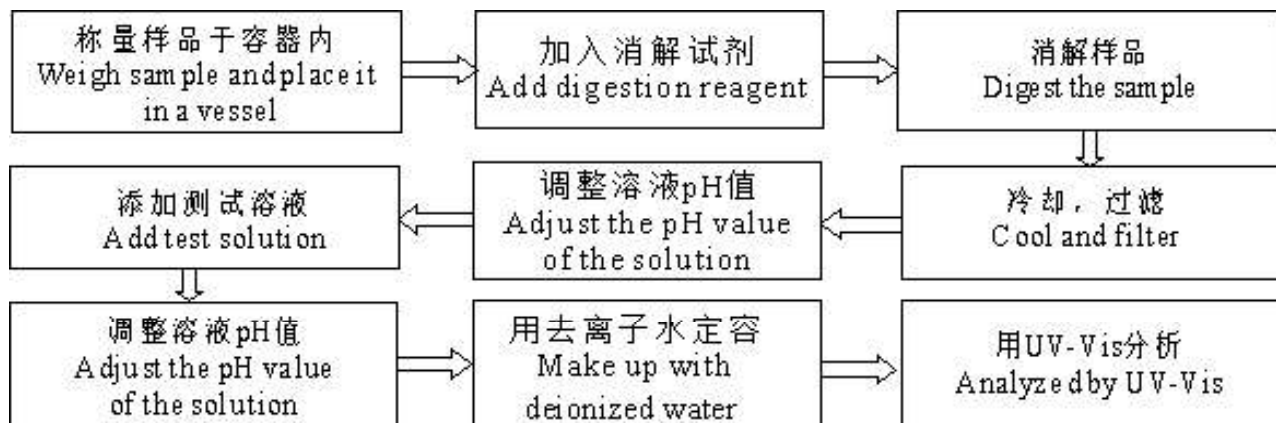
### 1.3.1. 铅 Lead(Pb), 镉 Cadmium(Cd), 铬 Chromium(Cr)



### 1.3.2. 汞 Mercury(Hg)



### 1.3.3. 六价铬 Hexavalent Chromium(Cr(VI))

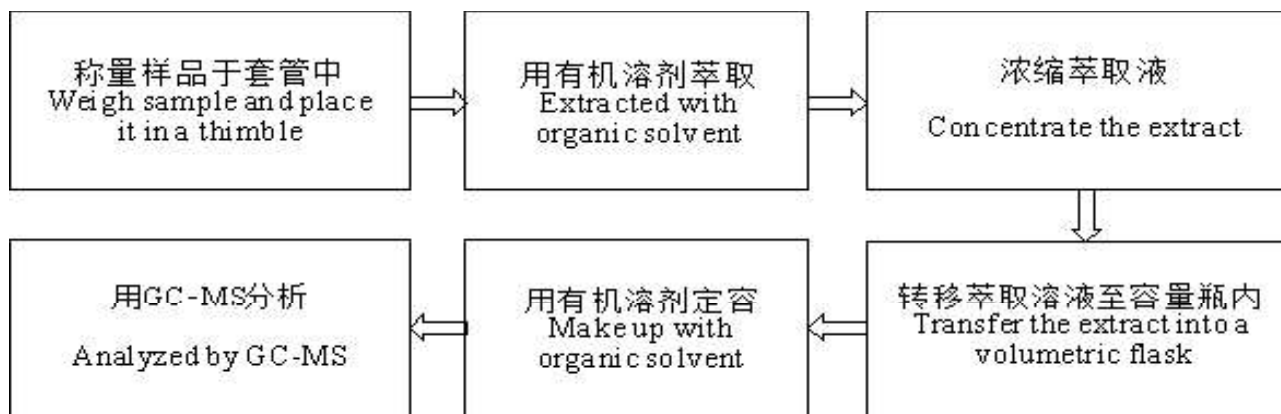


# 检测报告 Test Report

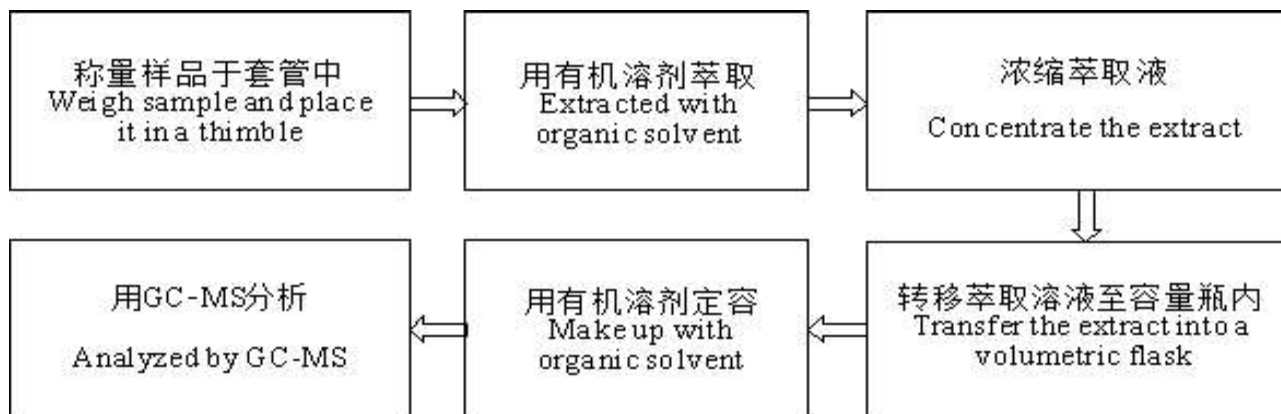
报告编号 A2200059294103E  
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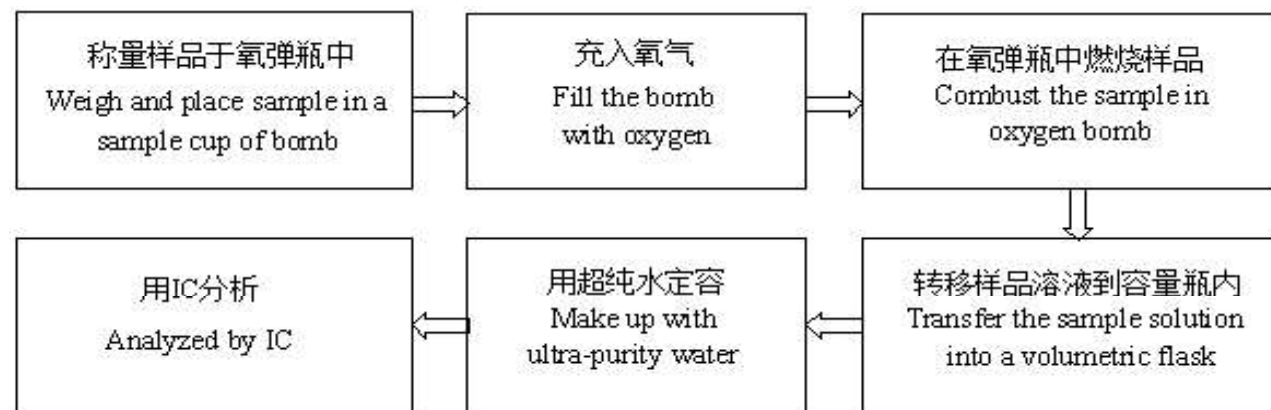
## 1.3.4. 多溴联苯 Polybrominated Biphenyls(PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



## 1.3.5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



## 1.3.6. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)

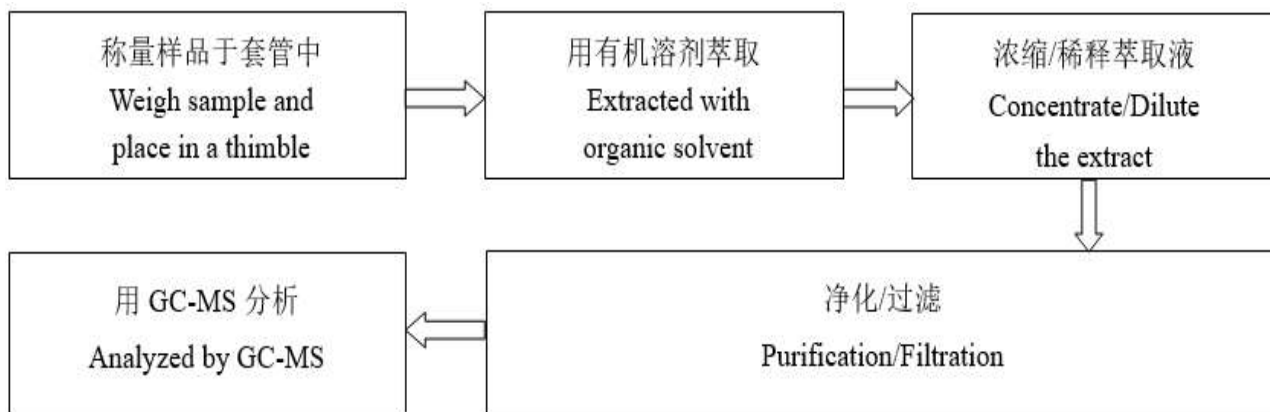


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## 1.3.7. 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)



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## 2.1 检测结果 Test Result(s)

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	浓度 Concentration (%)	报告 检出限 Report Limit (%)
-	-	所有 SVHC 物质（见候选清单） All tested SVHC (See the candidate list)	-	-	N.D.	-

## 2.2 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 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 for sample pretreatment.

采用 ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID 及 LC-MS-MS 分析。

Analyzed by ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID and LC-MS-MS.

样品/部位描述 浅绿色塑料颗粒  
Sample/Part Description Light green plastic grains

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## 注释 Note:

1. 结果仅显示检出的 SVHC 物质, 低于报告检出限的 SVHC 物质没有列出。所有测试的 SVHC 物质见下页的 SVHC 候选清单。The table of tested result(s) only shows detected SVHC, and SVHC that below Report Limit are not reported. Please refer to the Candidate List 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 (小于报告检出限<report limit)
4. \*: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) by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
5. \*\*: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).
6. \*\*\*:C.I.:颜料索引号 Colour Index
7. \*\*\*\*:蒸馏所分离出来的轻油部分 Light fractions from distillation
8. \*\*\*\*\*: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.
9. ^: 甲醛苯胺共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 (technical MDA) by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'- Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).



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10. <sup>①</sup>: 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.
11. <sup>②</sup>: 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.

## 备注 Remark:

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.	EC 号 EC No.	报告检出限 Report Limit (%)
I	1	蒽 Anthracene	120-12-7	204-371-1	0.005
I	2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.005
I	3	邻苯二甲酸二丁酯 Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.005
I	4	氯化钴 Cobalt dichloride*	7646-79-9	231-589-4	0.01
I	5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01
I	6	三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	0.01
I	7	重铬酸钠 Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	0.01
I	8	二甲苯麝香 Musk xylene	81-15-2	201-329-4	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	204-211-0	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)	247-148-4 221-695-9	0.005
I	11	短链氯化石蜡 Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	0.01
I	12	三丁基氧化锡 Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005
I	13	砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
I	14	邻苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	0.005
I	15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	16	①蒽油 Anthracene oil	90640-80-5	292-602-7	0.05
II	17	①蒽油,蒽糊,轻油 Anthracene oil, anthracene paste, distn. Lights *****	91995-17-4	295-278-5	0.05



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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
II	18	<sup>①</sup> 蒽油,蒽糊,蒽馏分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05
II	19	<sup>①</sup> 蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
II	20	<sup>①</sup> 蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
II	21	<sup>①</sup> 煤焦油沥青,高温 Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05
II	22	丙烯酰胺 Acrylamide	79-06-1	201-173-7	0.01
II	23	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	0.01
II	24	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
II	25	<sup>②</sup> 铬酸铅 Lead chromate	7758-97-6	231-846-0	0.05
II	26	<sup>②</sup> 钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
II	27	<sup>②</sup> 铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
II	28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.01
III	29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	0.005
III	30	硼酸 Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	31	<sup>②</sup> 四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	32	<sup>②</sup> 四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	0.01
III	33	铬酸钠 Sodium chromate*	7775-11-3	231-889-5	0.01
III	34	铬酸钾 Potassium chromate*	7789-00-6	232-140-5	0.01
III	35	重铬酸铵 Ammonium dichromate*	7789-09-5	232-143-1	0.01
III	36	重铬酸钾 Potassium dichromate*	7778-50-9	231-906-6	0.01

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IV	37	硫酸钴 Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	38	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	39	碳酸钴 Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	40	醋酸钴 Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	41	乙二醇单甲醚 2-Methoxyethanol	109-86-4	203-713-7	0.005
IV	42	乙二醇单乙醚 2-Ethoxyethanol	110-80-5	203-804-1	0.005
IV	43	三氧化铬 Chromium trioxide*	1333-82-0	215-607-8	0.01
IV	44	①从三氧化铬产生的酸类以及它们的齐聚物: 铬酸、重铬酸、铬酸和重铬酸的齐聚物 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	231-801-5 236-881-5	0.01
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	0.01
V	46	铬酸锶 Strontium chromate*	7789-06-2	232-142-6	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	271-084-6	0.01
V	48	肼 Hydrazine	7803-57-8 302-01-2	206-114-9	0.01
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.01
V	50	1, 2, 3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	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	276-158-1	0.01
VI	52	铬酸铬 Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01
VI	53	氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.01
VI	54	氢氧化铬酸锌 Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01
VI	55	②硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	0.05

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VI	56	<sup>②</sup> 氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	0.05
VI	57	<sup>①</sup> 甲醛苯胺共聚物 Formaldehyde, oligomeric reaction products with aniline (technical MDA) <sup>▲</sup>	25214-70-4	500-036-1	0.01
VI	58	邻苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005
VI	59	2-甲氧基苯胺(邻甲氧基苯胺) 2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	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 (4-tert-Octylphenol)	140-66-9	205-426-2	0.005
VI	61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	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	203-924-4	0.005
VI	63	砷酸 Arsenic acid*	7778-39-4	231-901-9	0.01
VI	64	砷酸钙 Calcium arsenate*	7778-44-1	231-904-5	0.01
VI	65	砷酸铅 Trilead diarsenate*	3687-31-8	222-979-5	0.01
VI	66	N,N-二甲基乙酰胺 N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
VI	67	4,4'-亚甲基双(2-氯苯胺) 2,2'-dichloro-4,4'- methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
VI	68	酚酞 Phenolphthalein	77-09-8	201-004-7	0.005
VI	69	叠氮化铅 Lead diazide*	13424-46-9	236-542-1	0.01
VI	70	2,4,6-三硝基间苯二酚铅 (别名: 收敛酸铅) Lead 2,4,6-trinitro-m- phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	0.01
VI	71	苦味酸铅 Lead dipicrate*	6477-64-1	229-335-2	0.01

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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	203-977-3	0.01
VII	73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
VII	74	三氧化二硼 Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	75	甲酰胺 Formamide	75-12-7	200-842-0	0.01
VII	76	甲基磺酸铅 Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	0.01
VII	77	异氰尿酸三缩水甘油酯 TGIC(1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01
VII	78	异氰脲酸 β-三缩水甘油酯 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	423-400-0	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	202-027-5	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'-methylenedia niline (Michler's base)	101-61-1	202-959-2	0.01
VII	81	C.I.碱性紫 3 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yl idene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	208-953-6	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	219-943-6	0.01

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VII	83	C.I.溶剂蓝 4 $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	0.01
VII	84	$\alpha,\alpha$ -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	209-218-2	0.01
VIII	85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.05
VIII	86	④-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))	123-77-3	204-650-8	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 Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05
VIII	90	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05

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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	201-604-9 236-086-3 238-009-9	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	247-094-1 243-072-0 256-356-4 260-566-1	0.05
VIII	93	全氟十四酸 Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05
VIII	94	邻苯二甲酸二异戊酯 Diisopentylphthalate(DIPP)	605-50-5	210-088-4	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	284-032-2	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	210-894-6	0.05
VIII	98	全氟十二烷酸 Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05
VIII	99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1	0.05
VIII	100	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1, 3-oxazolidine	143860-04-2	421-150-7	0.05

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VIII	101	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.05
VIII	102	N-甲基乙酰胺 N-methylacetamide	79-16-3	201-182-6	0.05
VIII	103	氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01
VIII	104	4-氨基联苯 Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
VIII	105	地乐酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05
VIII	106	双(十八烷基)二氧代三铅 Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01
VIII	107	硝酸铅 Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	108	三碱式硫酸铅 Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01
VIII	109	氧化铅 Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.01
VIII	110	钛酸铅 Lead titanium trioxide*	12060-00-3	235-038-9	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	212-658-8	0.05
VIII	112	碱式乙酸铅 Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	113	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	0.05
VIII	114	呋喃 Furan	110-00-9	203-727-3	0.05
VIII	115	颜料黄 41 Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	116	四乙基铅 Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	117	二盐基邻苯二甲酸铅 [Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01
VIII	118	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	0.05
VIII	119	氨基氰铅盐 Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	120	掺杂铅的硅酸钡 Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	121	磷酸氧化铅 Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01



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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
VIII	122	邻甲基苯胺 <i>o</i> -Toluidine	95-53-4	202-429-0	0.05
VIII	123	邻氨基偶氮甲苯 <i>o</i> -aminoazotoluene	97-56-3	202-591-2	0.05
VIII	124	4-对氨基偶氮苯 4-aminoazobenzene	60-09-3	200-453-6	0.05
VIII	125	6-甲氧基-间甲苯胺 6-methoxy- <i>m</i> -toluidine ( <i>p</i> -cresidine)	120-71-8	204-419-1	0.05
VIII	126	二丁基二氯化锡 Dibutyltin dichloride (DBTC)*	683-18-1	211-670-0	0.05
VIII	127	钛酸铅锆 Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	128	环氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.05
VIII	129	1-溴代正丙烷 1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05
VIII	130	碱式碳酸铅 Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.01
VIII	131	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	132	四氧化三铅 Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	133	二碱式亚硫酸铅(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	134	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
VIII	135	碱式硫酸铅 Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	136	四氟硼酸铅 Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01
VIII	137	硅酸铅 Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
VIII	138	N,N-二甲基甲酰胺 N,N-dimethylformamide	68-12-2	200-679-5	0.05
IX	139	镉 Cadmium	7440-43-9	231-152-8	0.01
IX	140	氧化镉 Cadmium oxide*	1306-19-0	215-146-2	0.01
IX	141	邻苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01



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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
IX	142	<sup>①</sup> 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	223-320-4	0.01
IX	144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01
X	145	<sup>①</sup> 磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	246-677-8	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	217-710-3	0.01
X	147	邻苯二甲酸二己酯 Dihexyl phthalate	84-75-3	201-559-5	0.01
X	148	硫化镉 Cadmium sulphide*	1306-23-6	215-147-8	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	209-358-4	0.01
X	150	醋酸铅(II) Lead di(acetate)*	301-04-2	206-104-4	0.01
X	151	1,2-亚乙基硫脲 Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
XI	152	<sup>①</sup> 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	271-093-5	0.01
XI	153	氯化镉 Cadmium chloride *	10108-64-2	233-296-7	0.01
XI	154	<sup>②</sup> 过硼酸钠, 水合物; 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt *****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	155	<sup>②</sup> 过硼酸钠, 无水 Sodium peroxometaborate *****	7632-04-4	231-556-4	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	247-384-8	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	223-346-6	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	239-622-4	0.05
XII	159	氟化镉 Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	160	硫酸镉 Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XII	161	<sup>①</sup> 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

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
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	271-094-0 272-013-1	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	202-716-0	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	223-383-8	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	253-037-1	0.01
XIV	167	1,3-丙烷磺内酯 1,3-propanesultone	1120-71-4	214-317-9	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	206-801-3	0.01
XV	169	苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
XVI	170	双酚 A (BPA) 4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	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	221-470-5 206-400-3 -	0.01
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	201-280-9	0.01
XVI	173	<sup>①</sup> 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	-	-	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 1718-53-2	200-280-6	0.01
XVIII	177	硝酸镉Cadmium nitrate*	10325-94-7 10022-68-1	233-710-6	0.01
XVIII	178	碳酸镉Cadmium carbonate*	513-78-0	208-168-9	0.01
XVIII	179	氢氧化镉Cadmium hydroxide*	21041-95-2	244-168-5	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
XVIII	180	蒽Chrysene	218-01-9 1719-03-5	205-923-4	0.01
XVIII	181	①1,3,4-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	209-136-7	0.01
XIX	183	十甲基环五硅氧烷 Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
XIX	184	十二甲基环六硅氧烷 Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
XIX	185	铅 Lead	7439-92-1	231-100-4	0.01
XIX	186	八硼酸二钠 Disodium octaborate*	12008-41-2	234-541-0	0.01
XIX	187	苯并(g,h,i)芘 Benzo[ghi]perylene	191-24-2	205-883-8	0.01
XIX	188	①氢化三联苯 Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01
XIX	189	乙二胺 Ethylenediamine (EDA)	107-15-3	203-468-6	0.01
XIX	190	偏苯三酸酐 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.01
XIX	191	邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	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	401-720-1	0.01
XX	193	苯并[k]荧蒹 Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
XX	194	荧蒹 Fluoranthene	206-44-0	205-912-4	0.01
XX	195	菲 Phenanthrene	85-01-8	201-581-5	0.01
XX	196	芘 Pyrene	129-00-0	204-927-3	0.01

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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	15087-24-8	239-139-9	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	甲二醇乙醚乙酸酯 2-methoxyethyl acetate	110-49-6	203-772-9	0.01
XXI	200	4-叔丁基苯酚 4-tert-butylphenol	98-54-4	202-679-0	0.01
XXI	201	①三(壬基苯基)亚磷酸酯(TNPP)其中4- 壬基苯酚(支链和直链) (4-NP)含量大于 等于0.1 % Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01
XXII	202	2-苄基-2-二甲基氨基-1- (4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	119313-12-1	404-360-3	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	400-600-6	0.01
XXII	204	邻苯二甲酸二异己酯 Diisohexyl phthalate	71850-09-4	276-090-2	0.01
XXII	205	全氟丁烷磺酸(PFBS)及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01



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## 附加信息 Appendix:

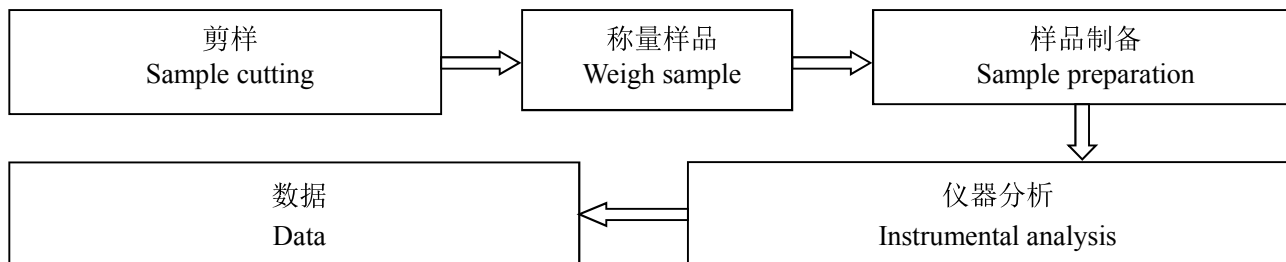
1. 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1% 时，物品供应方需履行相关信息传递义务：  
Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with 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  $\geq 0.1$  % by weight for non-gaseous mixtures or  $\geq 0.2$  % by volume for gaseous mixtures.

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## 2.3 检测流程 Test Process





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## 样品图片

### Photo(s) of the sample(s)



\*\*\* 报告结束 \*\*\*

\*\*\* End of Report \*\*\*

#### 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. 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 sample(s) and sample information was/were provided by the client 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. 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 testing reports (if generated), the Chinese version shall prevail.

## 测试报告

No. SHAEC1928030904

日期: 2019年12月19日 第1页,共8页

宁波市鄞州锡青铜带制品有限公司  
浙江省宁波市鄞州区云龙镇双桥村云龙中学东侧

以下测试之样品是由申请者所提供及确认: C5191 磷铜带

SGS工作编号: SP19-041051 - SH

样品接收日期: 2019年12月17日

测试周期: 2019年12月17日 - 2019年12月19日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务(上海)有限公司  
授权签名

胡敏

Dora Hu 胡敏  
批准签署人



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## 测试报告

No. SHAEC1928030904

日期: 2019年12月19日 第2页,共8页

测试结果:

### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA19-280309.002	铜色金属

备注:

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

### RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC-MS进行分析。

测试项目	限值	单位	MDL	002
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	74
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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## 测试报告

No. SHAEC1928030904

日期: 2019年12月19日 第3页,共8页

测试项目	限值	单位	MDL	002
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	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(2-乙基己基)酯(DEHP)	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。

IEC 62321系列等同于 EN 62321 系列

[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(2) ▼ = a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;

b. 当六价铬的浓度为ND(低于 $0.10 \mu\text{g}/\text{cm}^2$ )时, 样品为阴性, 即未检测到六价铬;

c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 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, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

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。



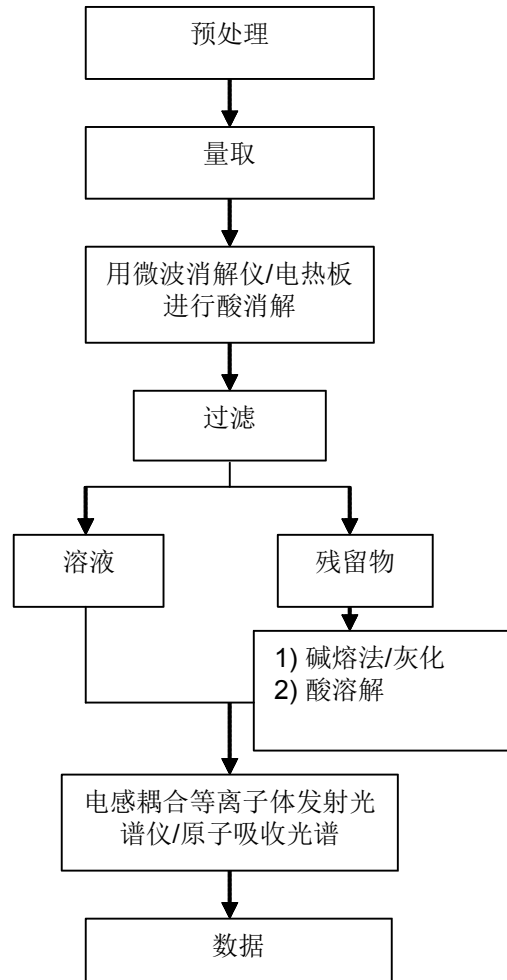
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## 元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解



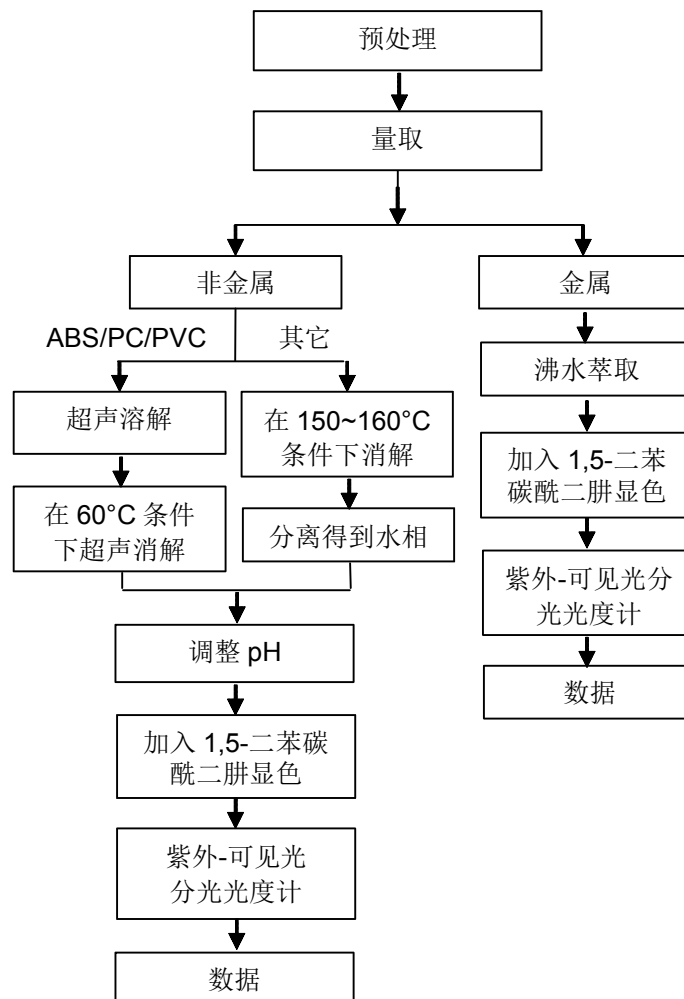
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## 六价铬测试流程图



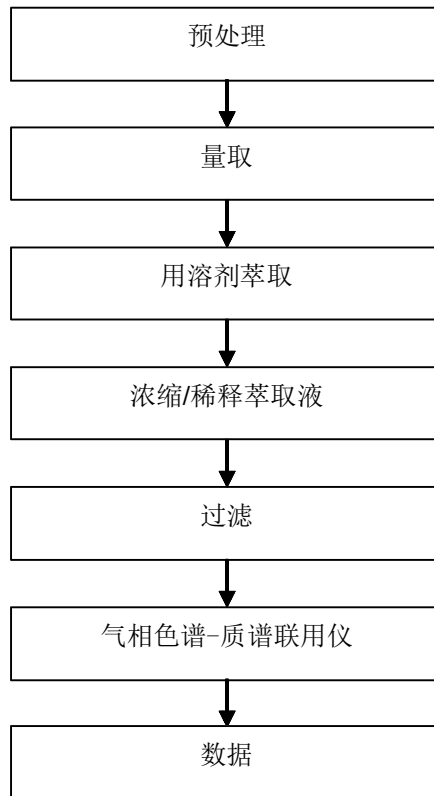
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## PBBs/PBDEs 测试流程图

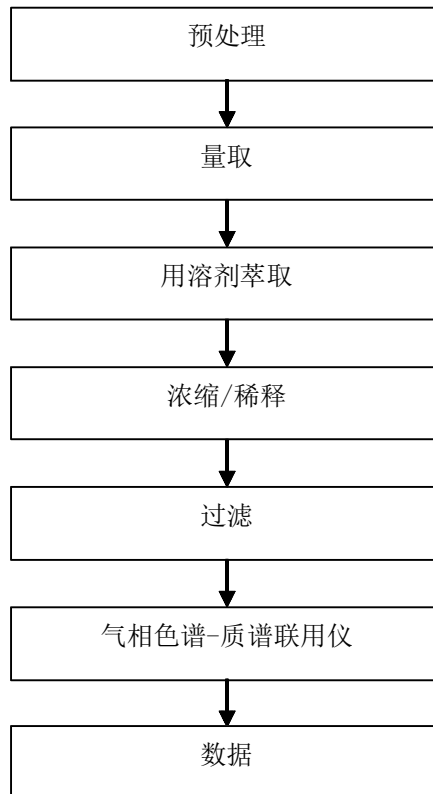


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## Phthalates 测试流程图



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## 测试报告

No. SHAEC1928030904

日期: 2019年12月19日 第8页,共8页

样品照片:



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\*\*\* 报告完 \*\*\*



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## Test Report

No. CANEC2003374303

Date: 26 Mar 2020

Page 1 of 4

XINLIDA SMOKING SET FACTORY.WHENZHOU CHINA  
NO.158,YANXING ROAD,LUCHENG,WENZHOU CITY, ZHEJIANG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : Silver-plated roll

SGS Job No. : CP20-009814 - GZ  
Date of Sample Received : 20 Mar 2020  
Testing Period : 20 Mar 2020 - 26 Mar 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).  
Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

*Jessie Li*

Jessie Li  
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory

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## Test Report

No. CANEC2003374303

Date: 26 Mar 2020

Page 2 of 4

Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN20-033743.002	Silvery plated metal

Remarks :

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

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	65
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series  
[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI  
b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating  
c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.



SGS-CSTC Testing Technology Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory

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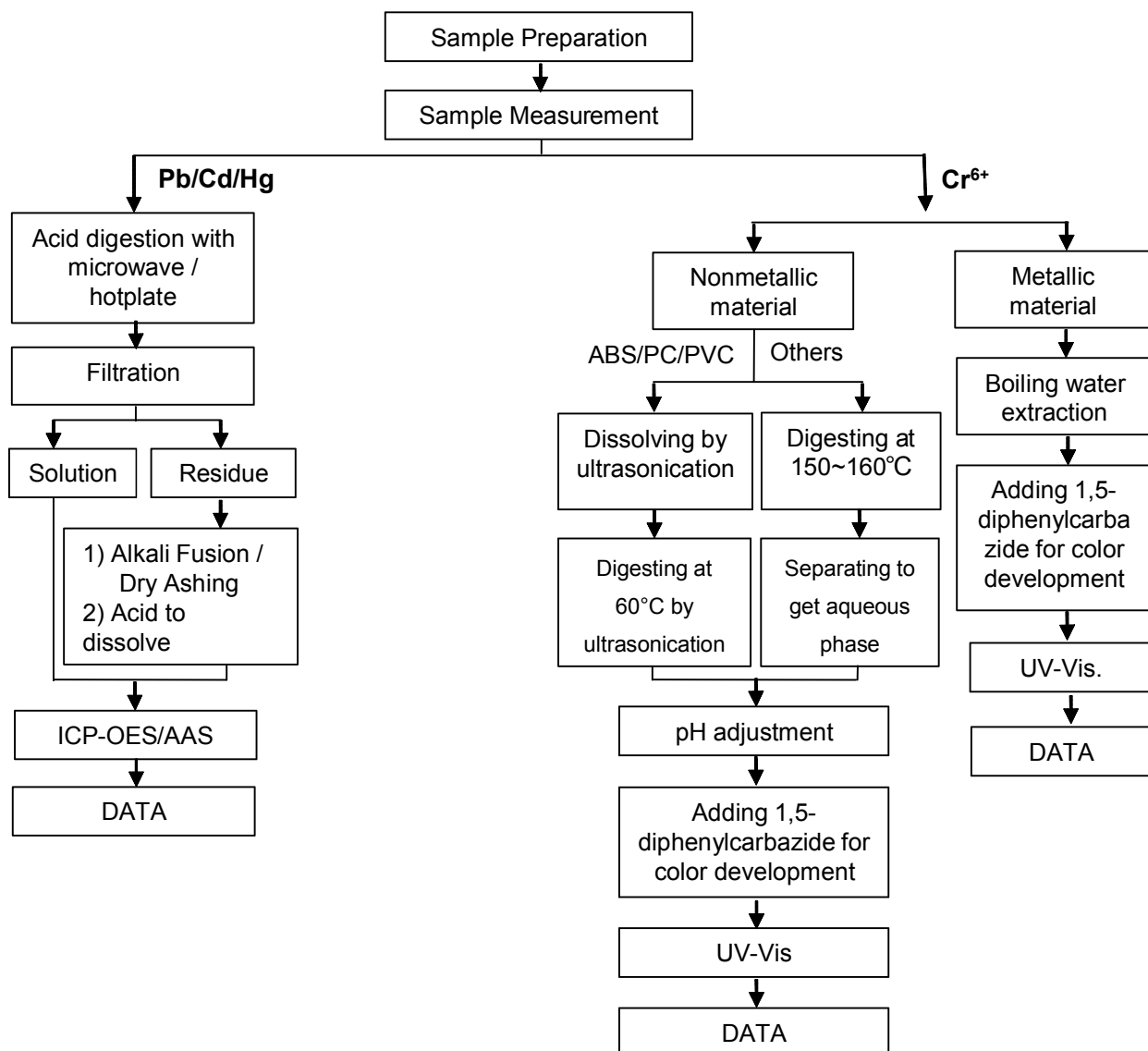
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### ATTACHMENTS

#### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded).



## Test Report

No. CANEC2003374303

Date: 26 Mar 2020

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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