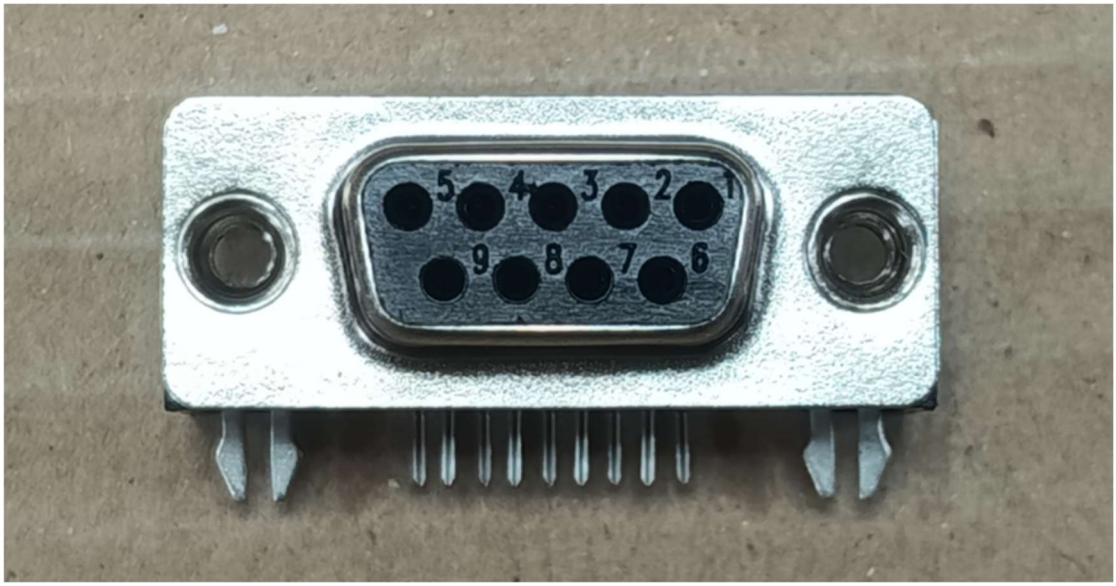
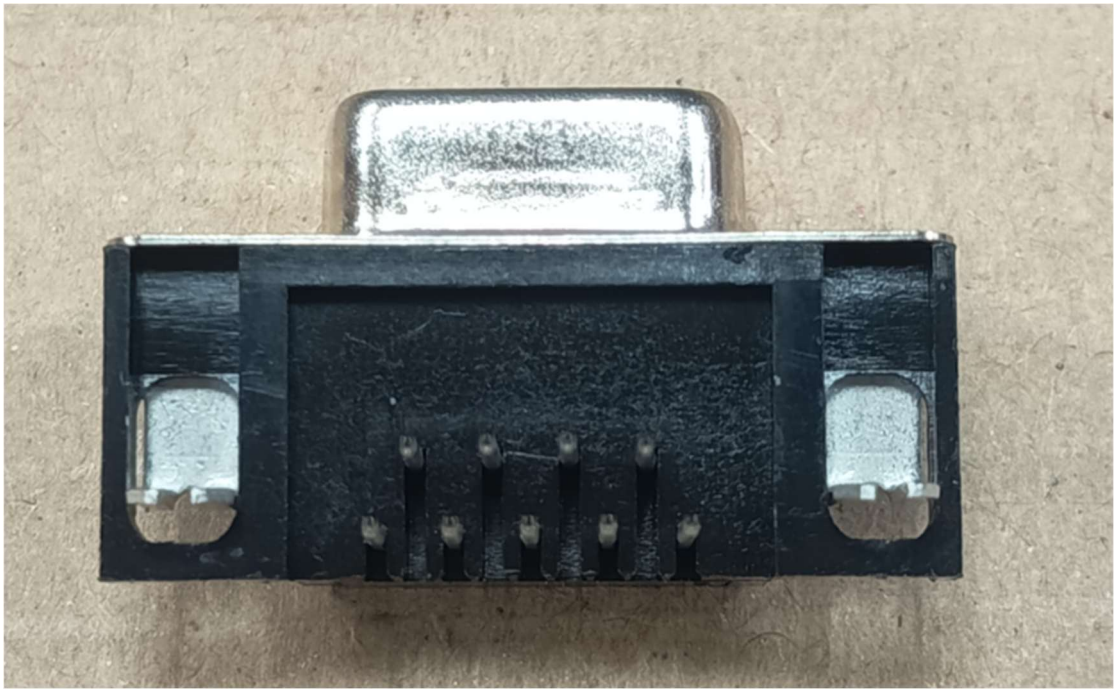






設計驗證
工程課
2026 -06- 23
發行

承　认　书

SPECIFICATION FOR APPROVAL

客　　户：钰纬科技开发股份有限公司
CUSTOMER

品　　名：DR 9 母半金锡
DESCRIPTION

DIVA 料号：3FF00916510 (F0339)
DIVA P/N.

DLK 料号：DSB8JD-09BS1YN30
DLK P/N

客户承认意见栏 CUSTOMER APPROVED BY

設計驗證
工程課
2026 -06- 23
發行
鈺緯科技開發股份有限公司

昆山德力康电子科技有限公司
KUNSHAN DLK ELECTRONICS TECHNOLOGY CO.,LTD
地址：昆山市淀山湖镇黄浦江南路 278 号
TEL：0512-57498666　　FAX：0512-57498555

核准		审核		制作	祁书洁	日期	2026 年 6 月 10 日

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UL Card

7. 规格书

Specification

8. 环境管理物质不使用证书

Environmental management material don't use certificate

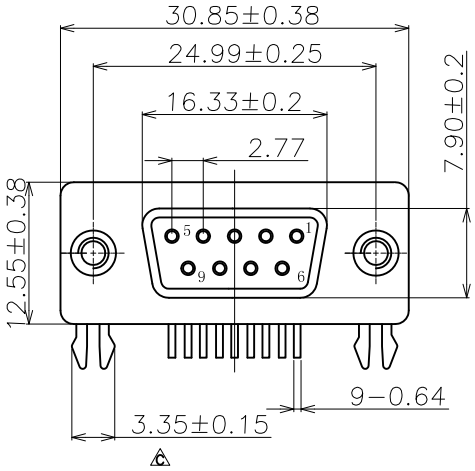
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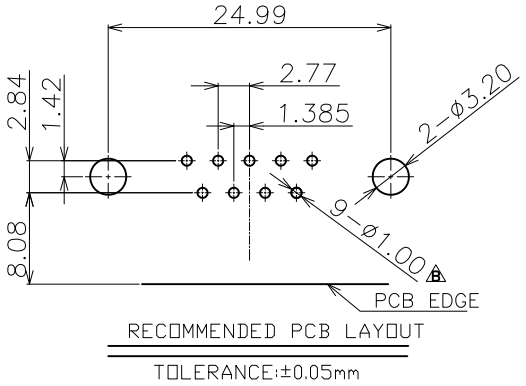
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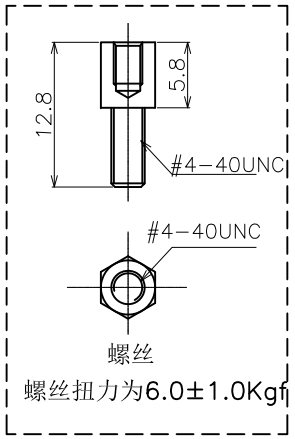
VER	MINUTE OF CHANGES	DLK CHECK	RELEASE DATE
A	CHECKED AND RELEASED	祁书洁	2026-6-10

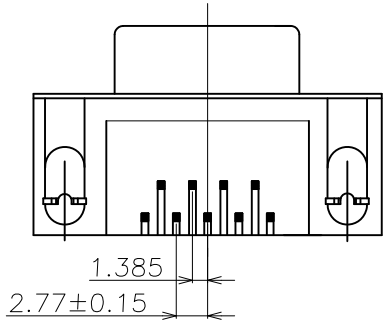
符合"DLK环境管理物质技术标准"

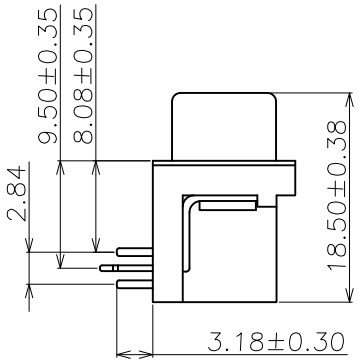
工程变更通知单 ECN(DCN) NO.	版本 REV	日期 DATE	说明 DESCRIPTION	变更 CHANGE	核准 APPRO.
———	A	20240407	NEW	——	——
———	B	20250904	修改PCB端子孔径 ⚠	——	——
———	C	20251106	变更插脚宽度 ⚠	邱宇	段国强











DSB8J D−09 B ** Y ** *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① PRODUTION CODE（产品编码）：
DSB8J: D-SUB CONN

② CHARACTER（特征）：
D: DIP TYPE 卧式

③ POSITION（位数）：
09:09PIN

④ COLOR OF HOUSING(本体颜色）：
B: BLACK COLOR

⑤ PLATING OF CONTACT(端子电镀）：
→ S1 :Au 1u" AND TIN PLATED
S4 :Au 15u" AND TIN PLATED
S5 :Au 30u" AND TIN PLATED

⑥ PACKAGE(包装）：
Y :TRAY PACKAGE

⑦ PLATING OF SHELL(铁壳电镀）：
→ N3:Ni PLATED 盐雾48H
N6:Ni PLATED 盐雾96H

⑧ TYPE:
→ 0：无螺丝
1：锁螺丝(H=5.80mm)

設計驗證 工程課 2026-06-23 發行

1.ELECTRICAL CHARACTERISTICS
CURRENTRATING: 2.0 AMP
VOLTAGE RATING: 250 V AC
CONTACT RESISTANCE :20 MILLIOHMS Max.
DIELECTRIC WITHSTANDINGVOLTAGE : 1000 V AC Min.
INSULATION RESISTANCE :1000 MEGAOHMS MIN.

2.ENVIRONMENTAL
OPERATING TEMPERATURE: −55°C ~ +105°
STORAGE TEMPERATURE:−55°C ~ +105°C

3FF00916510 (F0339)

NO.	ITEM	Q'TY	DESCRIPTION	FINISH
7	SCREW	2	STEEL	Ni PLATED
6	RIVET	2	COPPER ALLOY	Ni PLATED
5	COVER	1	PBT+30%G/F	UL94V−0 BLACK
4	RIVET INSERT	2	SK5	Tin PLATED
3	SHELL	1	SPCC	Ni PLATED
2	CONTACT	9	BRASS	Au AND Tin PLATED
1	INSULATOR	1	PBT+30%G/F	UL94V−0 Black

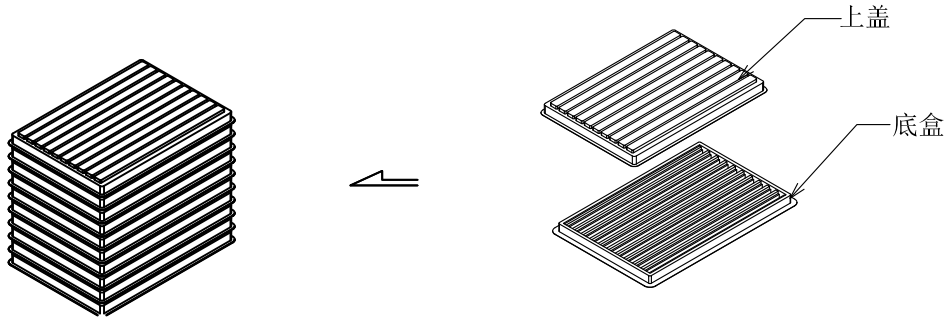
GENERAL TOLERANCE UNLESS OTHERWISE NOTED	
Angle	±5°
X.	±0.38
.X	±0.30
.XX	±0.25
.XXX	±0.15
A4	

DLK 德力康集团 德力康电子科技有限公司 DELIKANG ELECTRONICS TECHNOLOGY CO.,LTD

C 名称 TITLE:	DHR 9母半金锡				
档案名称 FILE NAME.	C-DSB8J-00-01		料号 PART NO:	DSB8JD-09BS1YN30	
DRAWING	蒋召	CHECKED	覃智森	APPROVED	段国强
UNIT:	mm	SCALE	1:1	SHEET: 1 of 1	

符合"DLK环境管理物质技术标准"

工程变更通知单 ECN(DCN) NO.	版本 REV	日期 DATE	说明 DESCRIPTION	改变 CHANGE	承认 APPRO.
————	X0	20211222	NEW RELEASE	——	——



每盘放入100PCS产品

包装说明:

1. 数量:

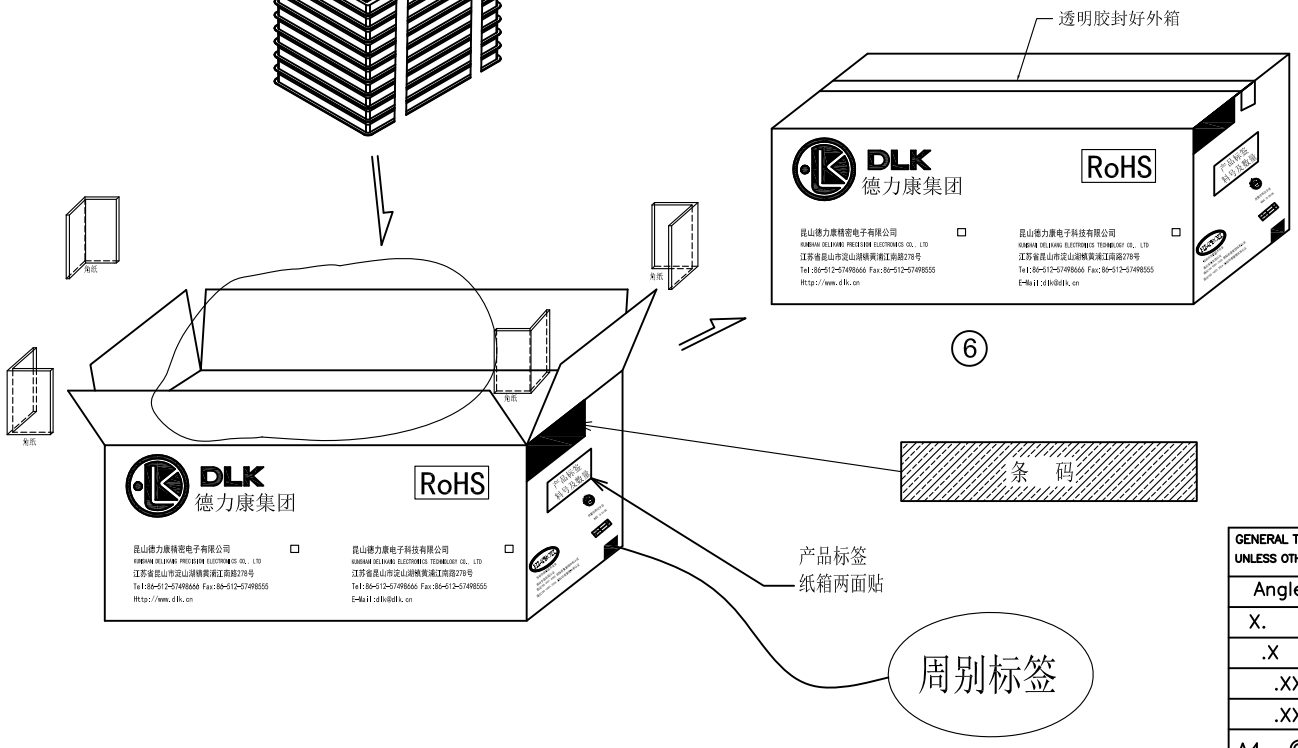
一盘=100Pcs,

2. 装入PE袋，加入干燥剂，封口后装入纸箱；包装过程中注意不可碰伤产品

3. 适用料号:

DSB8JD-09BS*YN30

4. 外箱材质K=K,要求破裂强度为6Kgf.



設計驗證
工程課
2026-06-23
發行

GENERAL TOLERANCE UNLESS OTHERWISE NOTED	
Angle	±5°
X.	±0.40
.X	±0.30
.XX	±0.25
.XXX	±0.15
A4	

德力康电子科技有限公司
DELIKANG ELECTRONICS TECHNOLOGY CO.,LTD

P	名称 TITLE:	HDR-9 母半金锡 包装图			
档案名称 FILE NAME.	P-DSB8J-00-00		料号 PART NO:	DSB8JD-09BS1YN30	
DRAWING	蒋 召	CHECKED	覃智森	APPROVED	段国强
UNIT:	mm	SCALE	1:1	SHEET: 1 of 1	

Material BOM List

料件名稱/料號 : DSB8JD-09BS1YN30

廠商名稱 : DLK

版本 Version :A

Customer P/N :3FF00916510

日期 Date : 2026-6-10

依循國際標準或是協會標準

項目 ITEM	部位 Position description	廠商名稱 supplier	底材材質 Bottom material	FLAME , UL NO	顏色,色碼 Color , Number	底材主要組成 Component of Bottom material	第一層材質 Material of first layer	鍍層濃度範圍 Plating layer thickness	第二層材質 Material of Second layer	鍍層濃度範圍 Plating layer thickness
1	Housing/ Cover	TS/DLK	PBT	UL:E321019 UL94V-0	BLACK					
2	Shell	HW/DLK	SPCC			Fe	Ni	30u″Min		
3	Contact	GT/DLK	C2680			Cu	Ni	30u″Min	接触端：Au 焊锡端：Tin	接触端：1u″Min 焊锡端：80u″Min
4	RIVET INSERT	JL/DLK	SK5							
5	RIVET	HJ/DLK	C3602			Cu	Ni	30u″Min		
6	Au	CF/DLK	Au							
7	Ni	CF/DLK	Ni							
8	Sn	CF/DLK	Sn							

Note = Paint thickness unit : u''

Approve:段国强　　Check:邱宇　　Prepare:祁书洁

Need more information? **Click Here** to go to the UL iQ™ for Plastics database

Component - Plastics **E321019**

TAISU PLASTIFICATION MATERIAL SCI&TECH CO LTD

TAISU INDUSTRIAL ZONE, FENGXIN RD, GUANGMING NEW DISTRICT, SHENZHEN GUANGDONG 518107 CN

PBT T301 00 GF

Polybutylene Terephthalate (PBT), glass reinforced, furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, RD, BK	0.4	V-0	4	1	75	75	75
ALL	0.8	V-0	3	1	75	75	75
	1.6	V-0	2	1	75	75	75
	3.0	V-0	0	1	75	75	75

Comparative Tracking Index (CTI): -

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): **30**

Volume Resistivity (10^X ohm-cm): **18**

High-Voltage Arc Tracking Rate (HVTR): -

High Volt, Low Current Arc Resis (D495): -

Dimensional Stability (%): -

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

Report Date: 2013-03-28

Last Revised: 2013-03-28

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	**IEC 60695-11-10**	**Class (color)**	**0.4**	**V-0 (NC, RD, BK)**
			0.8	**V-0 (ALL)**
			1.6	**V-0 (ALL)**
			3.0	**V-0 (ALL)**
Glow-Wire Flammability (GWFI)	**IEC 60695-2-12**	**C**	**0.4**	**960**
			0.8	**960**
			1.6	**960**
			3.0	**960**
Glow-Wire Ignition (GWIT)	**IEC 60695-2-13**	**C**	**0.4**	**825**
			0.8	**825**
			1.6	**825**
			3.0	**825**
IEC Comparative Tracking Index	**IEC 60112**	**Volts (Max)**	**3.0**	**CTI2**
IEC Ball Pressure	**IEC 60695-10-2**	**C**	**-**	**-**
ISO Heat Deflection (1.80 MPa)	**ISO 75-2**	**C**	**-**	**-**
ISO Tensile Strength	**ISO 527-2**	**MPa**	**-**	**-**
ISO Flexural Strength	**ISO 178**	**MPa**	**-**	**-**

ISO Tensile Impact	**ISO 8256**	**kJ/m^2**	**-**	**-**
ISO Izod Impact	**ISO 180**	**kJ/m^2**	**-**	**-**
ISO Charpy Impact	**ISO 179-2**	**kJ/m^2**	**-**	**-**

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The materials covered in this database are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE PRODUCTS SUBMITTED TO UNDERWRITERS LABORATORIES.

Notice of Disclaimer

PRODUCT SPECIFICATION

1.0 Applicable Connector: Applicable to DLK D-SUB Series connector.

（适用于德力康公司 D-SUB 系列连接器.）

Scope: This specification covers the requirements for product performance and test methods of DLK's D-SUB Series Connectors of the part numbers specified as bellow.

（覆盖范围：此规格书内容含盖德力康公司 D-SUB 系列连接器产品性能及测试方法。）

2.0 Rating（要求）：

2.1 Rated Voltage : 250 V AC,（额定电压：250V）

2.2 Rated Current:2.0 A（额定电流：2.0A）

2.3 Electric Pressure: Keeping 60 second in AC 1000V/1mA(耐压 1000V AC 持续 60 秒）

2.4 Insulation Resistance: 1000 MΩ Min. in DC 100V(绝缘阻抗最小 1000 兆欧)

2.5 Contact Resistance: 20 mΩ Max. (接触阻抗最大 20 毫欧)

2.6 Operating Temperature: -55°C~ +105°C(工作温度-55°C~ +105°C)

2.7 Storage Temperature:-55°C+105°C(存储温度-55°C+105°C)

3.0 Test Condition（测试条件）:

All tests shall be performed as bellow conditions unless otherwise specified.

（所有的测试都在下列条件下完成，除非另有说明.）

3.1 Temperature range : +15℃ to 35℃. （ 温度：+15℃至 35℃）

3.2 Humidity range: 25%to85%.（湿度：25%至 85%）

3.3 Atmospheric Pressure : 860 to 1060 mber

（大气压力： 860 至 1060 兆帕）

4.0Test Methods and Requirements（测试方法和要求）：

4.1Examination of product（检查尺寸）：

Item (条目)	Test Description （测试内容）	Test Methods （测试方法）	Requirement （要求）
4.1.1	Examination of product Outward Appearance Structure （产品外形/尺寸检查）	Shall be confirm with eyes in accordance with each drawing. Shall be confirmed by using proper measuring instruments. （依照图面要求对产品目视检查，再用测量工具，按图面要求测量尺寸）	Outward appearance shall be good without such injurious problem structure shall be meet the design and dimensional requirements of drawing （外观良好，无任何有害问题；结构符合图面设计要求。）

4.2 Electrical performance（电气性能）：

Item (条目)	Test Description （测试内容）	Test Methods （测试方法）	Requirement （要求）
4.2.1	Contact Resistance （接触阻抗）	Mated connectors. Contact: measure by dry circuit, 20 mV max, 10mA Shell: measured by open circuit, 5 V max, 100mA. (ANSI/EIA-364-06A-83) （配对的连接器，端子在回路施加直流最大 20mV 10mA 的电流；铁壳在回路施加直流最大 5V 100mA 的电流；再测量相对应端子或铁壳的电阻值）	Inception:20 mΩ max. (初始最大 20 毫欧)
4.2.2	Insulation Resistance （绝缘阻抗）	Unmated connectors, applied DC 100 Volts for 1minute between adjacent terminal. (ANSI/EIA 364-21, Method 302) （未配对的连接器，在相邻的端子间施加 DC 100V 的电压测试 1 分钟；）	1000MΩ min （最小为 1000 兆欧）
4.2.3	Dielectric Strength （耐电压）	Unmated connectors, applied AC 1000 Volts and leak current 1mA for 1minute between adjacent terminal . (ANSI/EIA 364-20,Method 301) （未配对的连接器，在相邻的端子间施加 AC 1000V 的电压与 1mA 漏电流测试 1 分钟；)	No Breakdown （没有损坏）

4.3 Mechanical Performance（机械性能）：

Item (条目)	Test Description （测试内容）	Test Methods （测试方法）	Requirement （要求）
4.3.1	Insertion Force （插入力）	Solder each of the plug and receptacle connector to the P.C.Board then do insertion/extraction along the axis 3 times at speed 25mm. After place each of the P.C.Board onto the push-on/pull-off machine to be measurement the insertion force. (ANSI/EIA-364-13) （将公、母座焊接在 PCB 板上，再将 PCB 板置于插拔力实验机上，然后以每分钟 25mm 的速度沿轴向插拔 3 之次后再测试其插入力。）	Insertion force （插入力）： 9PIN: 3.00kgf Max. 15PIN: 5.00kgf Max. 25PIN: 8.30kgf Max. 37PIN: 12.30kgf Max. 44PIN: 14.60kgf Max. 62PIN: 20.57kgf Max.

4.3.2	Withdrawal Force （拔出力）	Solder each of the plug and receptacle connector to the P.C.Board then do insertion/extraction along the axis 3 times at speed 25mm. After place each of the P.C.Board onto the push-on/pull-off machine to be measurement the insertion force. (ANSI/EIA-364-13) （将公、母座焊接在 PCB 板上，再将 PCB 板置于插拔力实验机上，然后以每分钟 25mm 的速度沿轴向插拔 3 之次后再测试其拔出力。）	Withdrawal Force （拔出力）： 9PIN: 0.33-2.0kgf . 15PIN: 0.45-3.3kgf. 25PIN: 0.78-5.6kgf. 37PIN: 1.10-8.2kgf. 44PIN: 1.25-9.8kgf. 62PIN: 1.75-13.81kgf.
4.3.3	Durability （寿命）	Solder each of the plug and receptacle connector to the P.C. Board,then place each of the P.C. Board onto the push-on/pull-off machine,then do insertion / Withdrawal 500 cycles along the axis at speed of 100 ±50 cycles per hours （ANSI/EIA 364-09） （将公、母座焊接在 PCB 上，再将 PCB 板置于耐插拔实验机上，然后以每小时 100±50 次的速度沿轴向插拔 500 次）	1）Insertion force （插入力）： See 4.3.1 2）Withdrawal Force （拔出力）： 9PIN: 0.33kgf Min . 15PIN: 0.45kgf Min. 25PIN: 0.78kgf Min. 37PIN: 1.10kgf Min. 44PIN: 1.25kgf Min. 62PIN: 1.75kgf Min. 3）Contact resistance: 30 mΩ Max. （接触阻抗最大 30 毫欧）

4.4 Environmental Performance（环境性能）：

Item (条目)	Test Description （测试内容）	Test Methods （测试方法）	Requirement （要求）
4.4.1	Salt Spray （盐水喷雾）	Place 48H in 5% salt water at 35 ℃ and wash with clean water (在温度 35℃、浓度为 5%的盐水中放置 48H 用清水冲洗后应无被氧化） EIA-364-26B2	1)The tin plating area of the tin foot is not required 锡脚镀锡区不作要求 2)After the Salt Spray test , (外观无损坏）

4.4.2	Withstand humidity （恒温恒湿）	The male and female connectors were welded on the PCB board, and then exposed to the joint in a constant temperature and humidity tank with a temperature of 55 ℃ ±2 ℃ and a humidity of 90-95% for 2 hours, then stood at room temperature for 2 hours as a cycle, after 5 cycles, the socket was retrieved after the test and placed at room temperature and humidity for 2 hours. （ANSI/EIA-364-31） （将公母座连接器各自焊接于 PCB 板上后将其对插再暴露在温度为 55℃±2℃，湿度为 90-95%的恒温恒湿槽中放置 2 小时后，在室温下静置 2H 为一个循环，进行 5 个循环后，完成测试后将插座取回在常温常湿下放置 2 小时后测定。）	1）Appearance: no damage (外观无损害) 2）Contact resistance: 30 mΩ Max. （接触阻抗最大 30 毫欧）
4.4.3	Withstand heat （耐热）	The connector shall be exposed in a hot chamber at temperature of 125±2℃ for a period of 96 hours ,shall then be returned at room conditions for 2 hours. the socket shall be capable of satisfactory performance. （ANSI/EIA-364-17） (将连接器暴露在温度为 125±2℃的恒温恒湿槽中放置 96 小时后，再在室温下自然干燥 2 小时后，绝缘部分应无变形、裂痕、金属部分无变色。)	1）Appearance: no damage (外观无损害) 2）Contact resistance: 30 mΩ Max. （接触阻抗最大 30 毫欧）
4.4.4	Withstand cold （耐寒）	The connector shall be exposed in a cold chamber at temperature of -55℃±2℃ for a period of 96hours, shall then be returned at room conditions for 2 hours, the socket shall be capable of satisfactory performance. （ANSI/EIA-364-17） (将连接器暴露在温度为-55±2℃的恒温恒湿槽中放置 96 小时后，再在室温下自然干燥 2 小时后，绝缘部分应无变形、裂痕、金属部分无变色。)	1）Appearance: no damage (外观无损害) 2）Contact resistance: 30 mΩ Max. （接触阻抗最大 30 毫欧）

4.4.5	Solderability （可焊性）	Immerse the solder pin of the connector in the solder bath at 245℃±5℃ for 3~5 seconds. After dipped the pin in the flux for 5 seconds. （ANSI/EIA-364-52） （将端子脚浸入助焊剂中 5 秒，然后将端子脚浸入 245℃±5℃的锡炉中 3~5 秒.）	Solder wetting:90% of immersed area must show no voids，Pin holes. (粘锡面积：锡附着的面积应超过浸入表面积的 90%以上)
4.4.6	Vibration （振动）	Solder each of plug and receptacle connector to the P.C.Board,then mate them together.place the mated connector firmly on the vibrator and apply the following condition shall be done. Amplitude:1.5mm {20G} Vibration frequency:10Hz-2000Hz Direction:along three mutually perpendicular direction. Sweep time:2.5 hours along each direction,a total 7.5 hours. Electrical load: DC100ma current shall be flowed during the test. (ANSI/EIA-364-28) (将公母座各自焊接于 PCB 板上，然后将其对插再固定于振动机上，并施加下列条件) 振幅：1.5mm {20G}； 振动频率：10Hz-2000Hz； 方向：沿著三个互相垂直的方向； 时间：每个方向 2.5 小时，共 7.5 小时； 电力负载：施加 DC 100mA 电流测试。	1）No electrical discontinuity greater than 1 microsecond.shall occur. （电气上不能有超过 1 徼秒断讯的情形发生。） 2）Lossen,crack and breakage of the plastic part and other detrimental damage shall not be observed. （塑胶件不能有松脱破损或其它不利的损坏。） 3）Contact resistance: 30 mΩ Max. （接触阻抗最大 30 毫欧）

德力康电子科技有限公司

DLK ELECTRONICS TECHNOLOGY CO.,LTD

COMPONENT QUALIFICATION REPORT

PRODUCT：DR 9母半金锡

PART NO.：DSB8JD-09BS1YN30

REV. ：A

RELIABILITY TEST RESULT:

■PASS □ NO PASS

APPROVED： Jia Wenqiang

CHECKED： Yu Huayang

TEST BY ： Li Liqing

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Coating Test report

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3
Test equipment：Film thickness tester	
Test result：befor test	

No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Pin electroplated thickness(u″)Ni>30u″	49.57	40.52	42.78	44.41	48.06	40.52	49.57	45.07
2	Pin electroplated thickness(u″)Au>1u″	1.74	1.73	1.72	1.85	1.62	1.62	1.85	1.73
3	Pin electroplated thickness(u″)Sn>80u″	100.30	119.13	108.11	106.21	107.00	100.30	119.13	108.15
4	Shell electroplated thickness(u″)Ni>30u″	52.73	52.73	54.14	50.95	55.56	50.95	55.56	53.22

Conclusion：合格

TEST：Li Liqing　　CHECKED：　Yu Huayang　　APPROVED：Jia　Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Electrical Characteristics test report

Part Description : DR 9母半金锡	Part NO: DSB8JD-09BS1YN30
Factory: Delikang Electronic Technology Co., Ltd	Quantity: 5PCS
Test Date: 2026-5-23	Report Date: 2026-6-8

Test equipment: 电阻分选仪（2Y9622A）、兆欧表（ZC25B-3）、耐压测试仪（CS2672）
Test conditions: Contact resistance(mΩ): 20mV/10mA ≤20mΩ;
Insulation resistance(MΩ): DC100V 1000MΩ Min.; Withstand Voltagestrength (AC 1000V for 1min.): 参照规格书，无异常 Approved Spec, No braekdown;
Rated Current/Voltage: 2A 250V; There are no damage, Electrical performance Normal;

Test result: befor test

No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Contact resistance(≤20mΩ)	8.29	9.21	7.55	8.96	7.58	7.55	9.21	8.32
2	Insulation resistance(1000MΩ Min.)	OK	OK	OK	OK	OK	OK	OK	OK
3	Dielectric strength (AC 1000V 1mA 1min)	OK	OK	OK	OK	OK	OK	OK	OK
4	Rated Current/Voltage 2A 250V	OK	OK	OK	OK	OK	OK	OK	OK

TEST: Li Liqing CHECKED: Yu Huayang APPROVED: Jia Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Mechanical Characteristics test report

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory： Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment： 插头plug、测力计Dynamometer（NK）、电阻分选仪（2Y9622A）
Test conditions：Solder each of the plug and receptacle connector to theP.C.Board then do insertion/extraction along the axis 3times at speed 25mm.
After place each of the P.C.Board onto the push-on/pull-offmachine to be measurement the insertion force.
Terminal strength： No braekdown， Approved Spec；
Durability：Mated and unmated 500 cycles , Contact resistance after test : 30 mΩ(Max.)

Test result：befor test / after test

No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Insertion Force： 5.0Kgf Max.	3.18	3.25	3.00	3.29	3.07	3.00	3.29	3.16	2.46	2.40	2.37	2.31	2.35	2.31	3.29	2.86
2	Extraction Force befor test：0.45-3.3Kgf Extraction Force after test：0.45Kgf Min.	1.48	1.45	1.63	1.61	1.56	1.45	1.63	1.55	1.42	1.36	1.32	1.33	1.41	1.32	1.63	1.48
3	Durability（Contact resistance befor test≤20mΩ,after test≤30mΩ）	7.09	7.63	7.94	9.73	7.47	7.09	9.73	7.97	11.47	10.53	13.63	12.54	11.98	10.53	13.63	12.03

Conclusion：合格

TEST：Li Liqing　　CHECKED： Yu Huayang　　APPROVED：Jia Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Withstand Cold Test

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment:
The connector shall be exposed in a cold chamber at temperature of -55℃ for a period of 96 hours, shall then be returned at room conditions for 2 hours, the socket shall be capable of satisfactory performance. （ANSI/EIA-364-17）

Test result：befor test										after test							
No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Outward appearance	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
2	Durability（Contact resistance befor test≤20mΩ,after test≤30mΩ）	9.52	7.55	8.90	9.36	9.81	7.55	9.81	9.03	10.23	10.02	12.97	11.10	13.89	10.02	13.89	11.64

Conclusion：合格

TEST：Li Liqing　　CHECKED：　Yu Huayang　　APPROVED：Jia　Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Dry Heat Test

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment：The connector shall be exposed in a hot chamber at temperature of 125℃ for a period of 96 hours ,shall then be returned at room conditions for 2 hours. the socket shall be capable of satisfactory performance.
（ANSI/EIA-364-17）

Test result：befor test									after test							
No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Outward appearance	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
2	Durability（Contact resistance befor test≤20mΩ,after test≤30mΩ）	8.02	7.55	8.39	9.22	7.19	7.19	9.22	8.07	10.80	13.81	12.68	11.01	12.68	10.80	13.81	12.20

Conclusion：合格

TEST：Li Liqing　　CHECKED：　Yu Huayang　　APPROVED：Jia　Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Withstand Humidity Test

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment：6DS-100temperature ant humidity ever-constant chamber
Test conditions： The male and female connectors were welded on thePCB board, and then exposed to the joint in a constanttemperature and humidity tank with a temperature of55 ℃ +2 ’℃ and a humidity of 90-95% for 2 hours,then stood at room temperature for 2 hours as a cycle,after 5 cycles, the socket was retrieved after the testand placed at room temperature and humidity for 2hours.
Contact resistance after test ： 30 mΩ(Max.)

Test result：befor test									after test							
No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Outward appearance	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
2	Insulation resistance(1000MΩ Min.)	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3	Dielectric strength (AC 1000V 1mA 1min)	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
4	Durability（Contact resistance befor test≤20mΩ,after test≤30mΩ）	8.46	8.74	7.46	8.48	9.68	7.46	9.68	8.56	13.10	13.64	11.48	11.11	13.77	11.11	13.77	12.62

Conclusion：合格

TEST：Li Liqing　　CHECKED： Yu Huayang　　APPROVED：Jia Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Salt spray test report

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment：Salt spray erode test box
Test conditions：Temperture：35±2℃ Salt density：5%
After keeping in above surrounding for 48 hours,take it in the standard atmospheric condition, then remove the foreign matters adhered and measure,
Contact resistance after test ： 30 mΩ(Max.) 。

Test result：befor test / after test:

No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Outward appearance	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Conclusion：合格

TEST：Li Liqing CHECKED： Yu Huayang APPROVED：Jia Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD

Solder ability&Resistance to soldering heat Test report

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：Delikang Electronic Technology Co., Ltd	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment：Thermostat tin furnace（TS-1500）、Life testing machine（CL-60-25）、
Test conditions： Solder-ability：245℃±5℃ 2.5±0.5S ＞90%Composition of solder:96.5% Sn-3.0% Ag-0.5%Cu;
Solder heart resistance test：260±2℃ 10±0.5S Obvious damage on appearance and Structure； Contact resistance after test : 30 mΩ(Max.)

Test result：befor test / after test:

No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Solder-ability >90%	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
2	Insulation resistance(1000MΩ Min.)	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3	Dielectric strength (AC 1000V 1mA 1min)	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
4	Durability（Contact resistance befor test≤20mΩ,after test≤30mΩ）	8.63	7.78	7.88	8.16	8.82	7.78	8.82	8.25	11.67	10.21	13.90	10.73	12.35	10.21	13.90	11.77

Conclusion：合格

TEST：Li Liqing CHECKED： Yu Huayang APPROVED：Jia Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Vibration Test report

Part Description ： DR 9母半金锡	Part NO：DSB8JD-09BS1YN30
Factory：DLK ELECTRONICS TECHNOLOGY CO.,LTD	Quantity：5PCS
Test Date：2026-5-22	Report Date：2026-6-3

Test equipment：插头plug、vibrator
Test conditions： Amplitude:1.5mm {20G}; Vibration frequency:10Hz-2000Hz; Direction:along three mutually perpendicular direction.; Sweep time:2.5 hours along each direction,a total 7.5hours. Electrical load: DC100ma current shall be flowedduring the test . Contact Resistance:30 mΩ maximum.Discontinuity:1 μ sec max.

Test result：befor test										after test:							
No	Item	1#	2#	3#	4#	5#	Min.	Max.	Average	1#	2#	3#	4#	5#	Min.	Max.	Average
1	Outward appearance	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
2	Durability（Contact resistance befor test≤20mΩ,after test≤30mΩ）	8.70	9.81	7.96	8.29	9.72	7.96	9.81	8.90	12.12	13.31	13.41	11.08	13.86	11.08	13.86	12.76
3	Discontinuity:1 μ sec max.	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Conclusion：合格

TEST：Li Liqing　　CHECKED： Yu Huayang　　APPROVED：Jia Wenqiang

德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
Test Record

Dawing Specification				Inspection Date						Comment
Item	Nominal	+TOL	-TOL	Sample Number					Accept/ Reject	Inspection Method
				1	2	3	4	5		
1	30.85	0.38	0.38	30.807	30.882	30.920	30.860	30.865	Accept	2D High Gauge/二次元
2	24.99	0.25	0.25	24.939	24.970	24.926	24.935	24.928	Accept	2D High Gauge/二次元
3	16.33	0.2	0.2	16.390	16.352	16.360	16.380	16.358	Accept	2D High Gauge/二次元
4	2.77	0.25	0.25	2.792	2.775	2.790	2.763	2.783	Accept	2D High Gauge/二次元
5	12.55	0.38	0.38	12.571	12.569	12.581	12.583	12.610	Accept	2D High Gauge/二次元
6	3.35	0.15	0.15	3.300	3.400	3.290	3.290	3.290	Accept	2D High Gauge/二次元
7	0.64	0.25	0.25	0.705	0.711	0.708	0.701	0.698	Accept	2D High Gauge/二次元
8	7.90	0.2	0.2	7.960	8.000	7.980	7.970	7.968	Accept	2D High Gauge/二次元
9	1.385	0.15	0.15	1.430	1.400	1.350	1.390	1.350	Accept	2D High Gauge/二次元
10	2.77	0.15	0.15	2.784	2.804	2.795	2.788	2.800	Accept	2D High Gauge/二次元
11	2.84	0.25	0.25	2.820	2.840	2.873	2.864	2.852	Accept	2D High Gauge/二次元
12	9.50	0.35	0.35	9.398	9.433	9.395	9.421	9.392	Accept	2D High Gauge/二次元
13	8.08	0.35	0.35	8.134	8.177	8.162	8.161	8.094	Accept	2D High Gauge/二次元
14	3.18	0.30	0.30	3.046	3.388	3.362	3.279	3.266	Accept	2D High Gauge/二次元
15	18.50	0.38	0.38	18.548	18.536	18.534	18.564	18.510	Accept	2D High Gauge/二次元
備註										

Caliper/卡尺 Torque Meter/扭力計 Straightedge/直尺 Ring Gauge/環規 Video Meter/2.5次元 2D High Gauge/二次元
Multimeter/萬用表 Micrometer Caliper/千分尺 Other/其它

Tested By: Li Liqing

Checked By: Yu Huayang

CTI 华测检测

检测报告
Test Report

报告编号 A2250410780101011E
Report No. A2250410780101011E

报告抬头公司名称 昆山德力康电子科技有限公司
Company Name shown on Report KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD
地 址 江苏省苏州市昆山市淀山湖黄浦江南路278号
Address NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

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	Plastic
Sample Name	Plastic
样品型号	PBT BK
Model No.	PBT BK
供应商	泰塑
Supplier	Taisu
样品接收日期	2025.06.14
Sample Received Date	Jun. 14, 2025
样品检测日期	2025.06.14-2025.06.20
Testing Period	Jun. 14, 2025 to Jun. 20, 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))，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)，红磷进行测试。

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), Red phosphorus 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

陈凯敏
实验室经理 Lab Manager

日 期
Date 2025.06.20

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.
No. R268851687
上海市闵行区万芳路1351号
No.1351, Wanfang Road, Minhang District, Shanghai, China

检测报告
Test Report

****

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.

检测报告
Test Report

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 62321-8:2017	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
红磷 Red phosphorus	GB/T 6040-2019, GB/T 9722-2023, GB/T 17359-2023, EPA 6010D:2018	ICP-OES, PY-GC-MS, FTIR, EM

检测报告
Test Report

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
	011		
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
	011		
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
	011		
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	

检测报告
Test Report

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
	011		
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
	011	
氟 Fluorine (F)	1054 mg/kg	10 mg/kg
氯 Chlorine (Cl)	440 mg/kg	10 mg/kg
溴 Bromine (Br)	55464 mg/kg	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
	011	
红磷 Red phosphorus	N.D.	500 mg/kg

检测报告
Test Report

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	011	黑色塑料粒子 Black plastic particle

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%

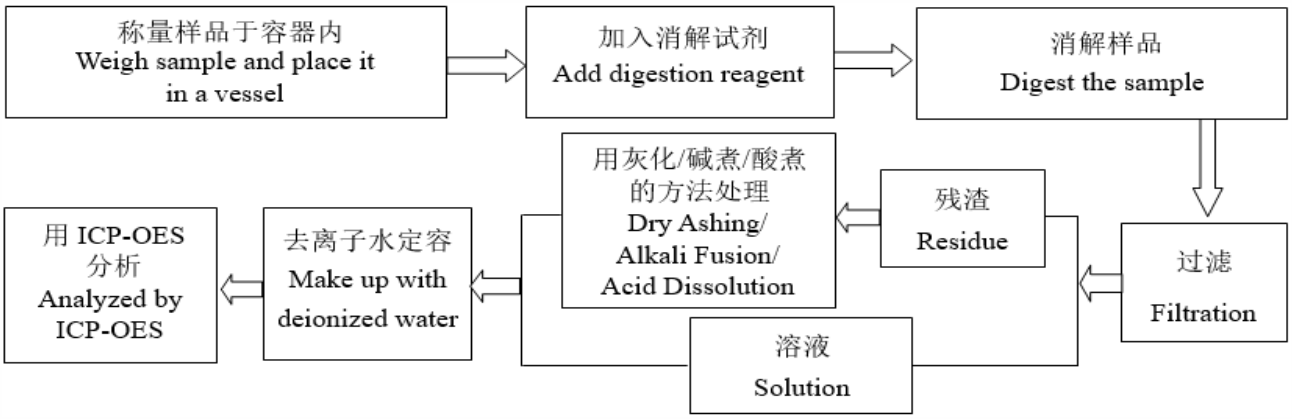
注释: **本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。**

Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

检测流程 Test Process

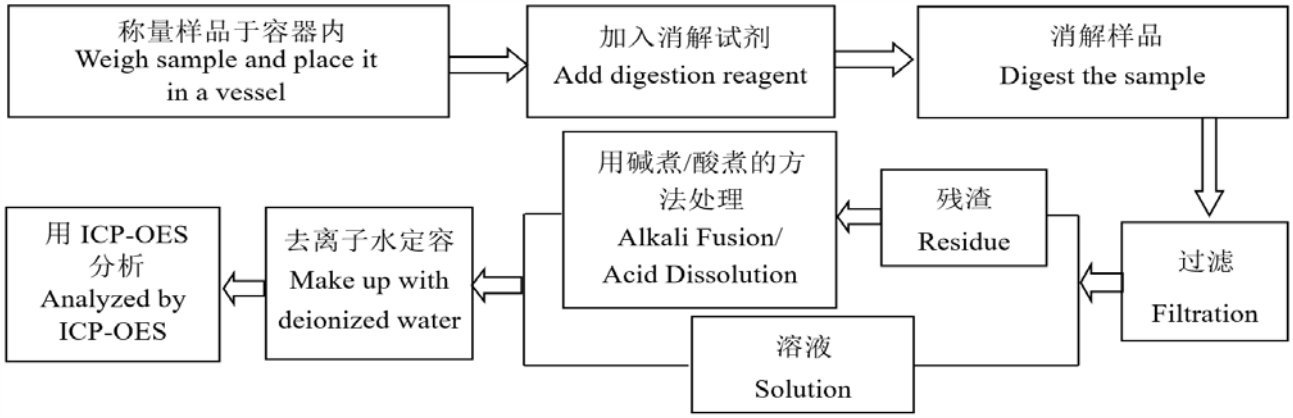
1. 铅(Pb)，镉(Cd)，铬(Cr)

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



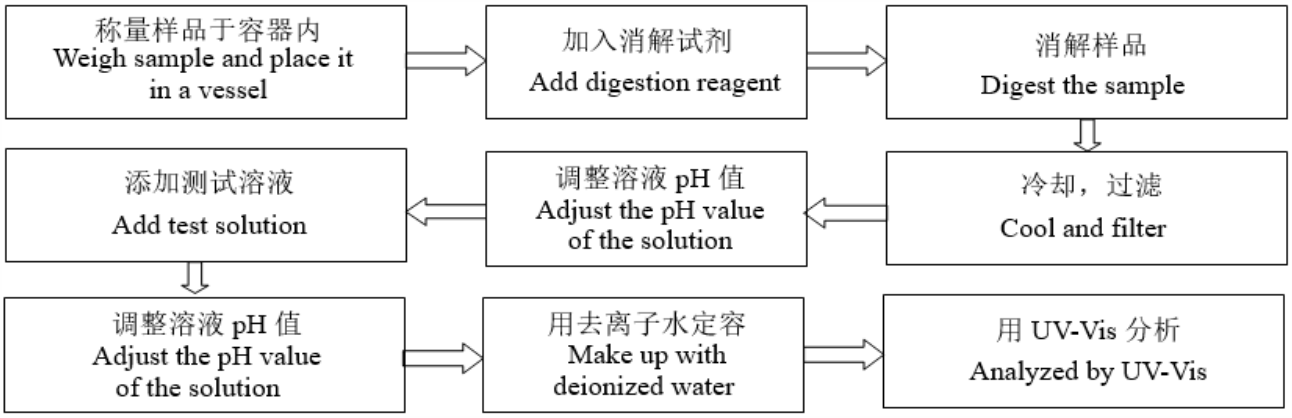
2. 汞(Hg)

Mercury (Hg)

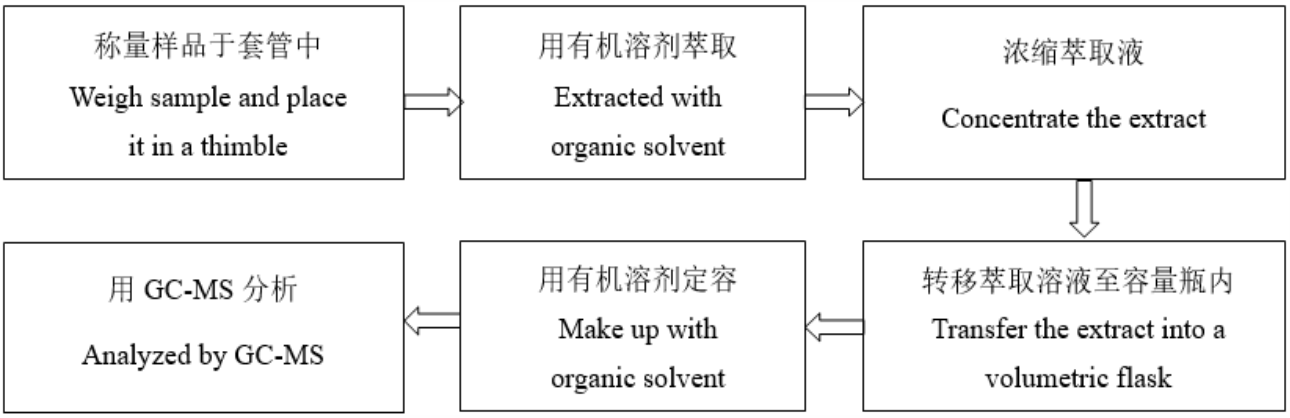


3. 六价铬(Cr(VI))

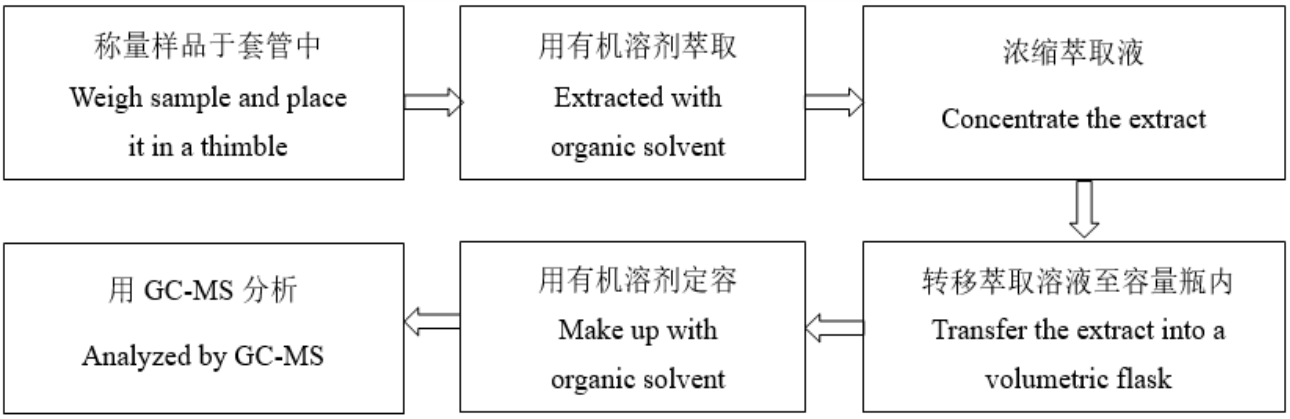
Hexavalent Chromium (Cr(VI))



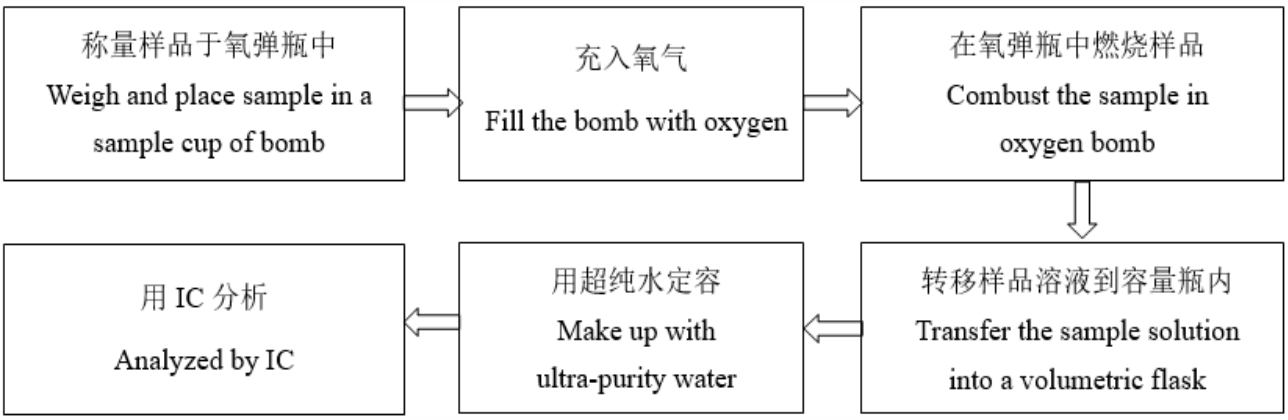
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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

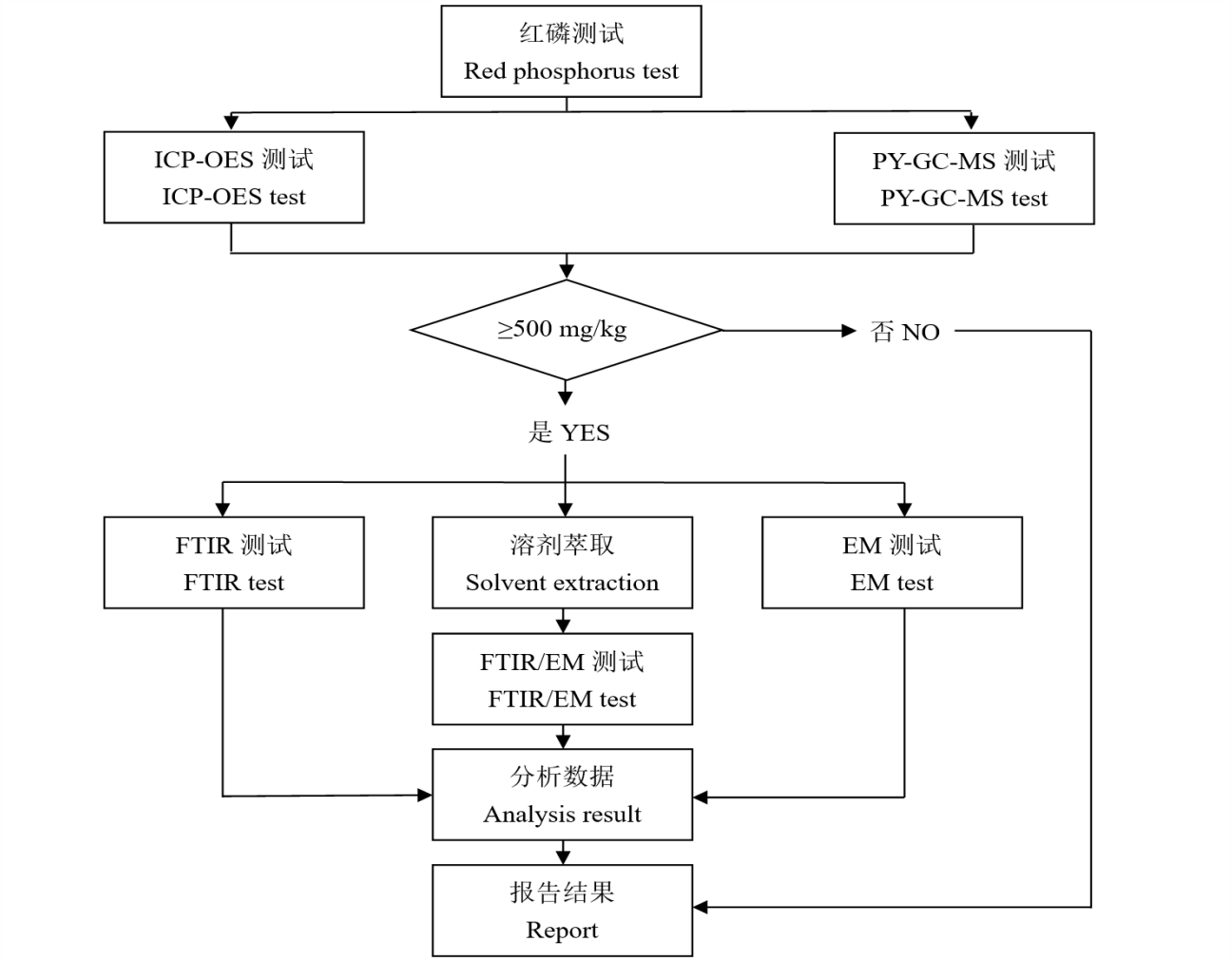


6. 氟(F)， 氯(Cl)， 溴(Br)， 碘(I)
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



7. 红磷

Red phosphorus



检测报告
Test Report

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 ***

CTI 华测检测

CMA
210900341277

检测报告
Test Report

报告编号 A2250410780102006E
Report No. A2250410780102006E

报告抬头公司名称 昆山德力康电子科技有限公司
Company Name shown on Report KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD
地 址 江苏省苏州市昆山市淀山湖黄浦江南路278号
Address NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

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	Plate
Sample Name	Plate
样品型号	SPCC
Model No.	SPCC
供应商	华为
Supplier	HUAWEI
样品接收日期	2025.06.14
Sample Received Date	Jun. 14, 2025
样品检测日期	2025.06.14-2025.06.20
Testing Period	Jun. 14, 2025 to Jun. 20, 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))进行测试。
Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)) 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

陈凯敏
实验室经理 Lab Manager

日 期
Date 2025.06.20

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. R268857260
上海市闵行区万芳路1351号
No.1351, Wanfang Road, Minhang District, Shanghai, China

检测报告
Test Report

****

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.

检测报告
Test Report

报告编号 A2250410780102006E
Report No. A2250410780102006E

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 62321-7-1:2015	UV-Vis

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
	006		
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. ▼	0.10 μg/cm² (LOQ)	1000 mg/kg

CTI 华测检测

检测报告
Test Report

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	006	银色金属 Silvery metal

备注: **对于检测铅，镉，汞之样品已消解完全。**

-N.D. = 未检出（小于方法检出限或定量限）

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

-LOQ = 定量限, 六价铬的定量限为0.10 μg/cm²

-▾六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。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。

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²

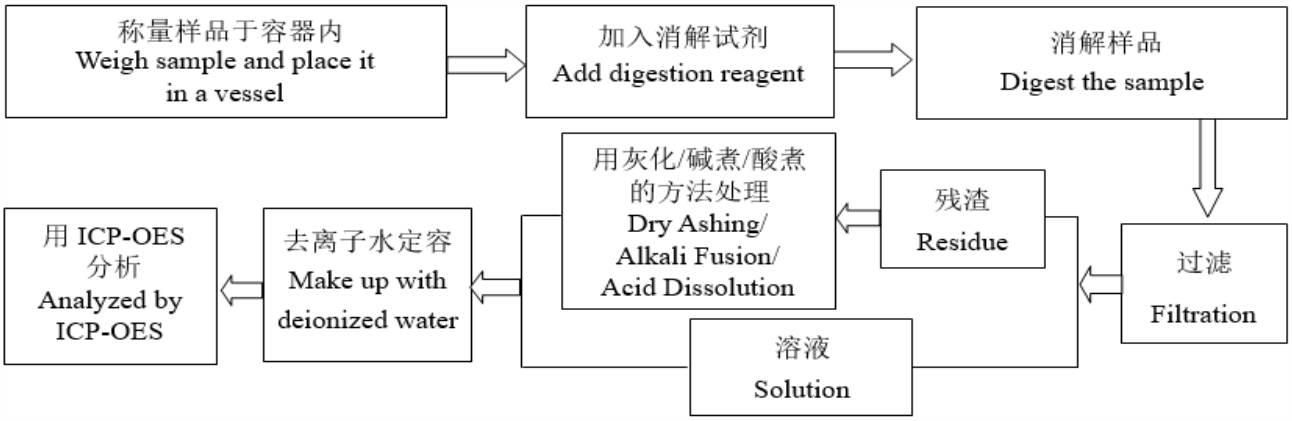
-▾ The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

检测报告
Test Report

检测流程 Test Process

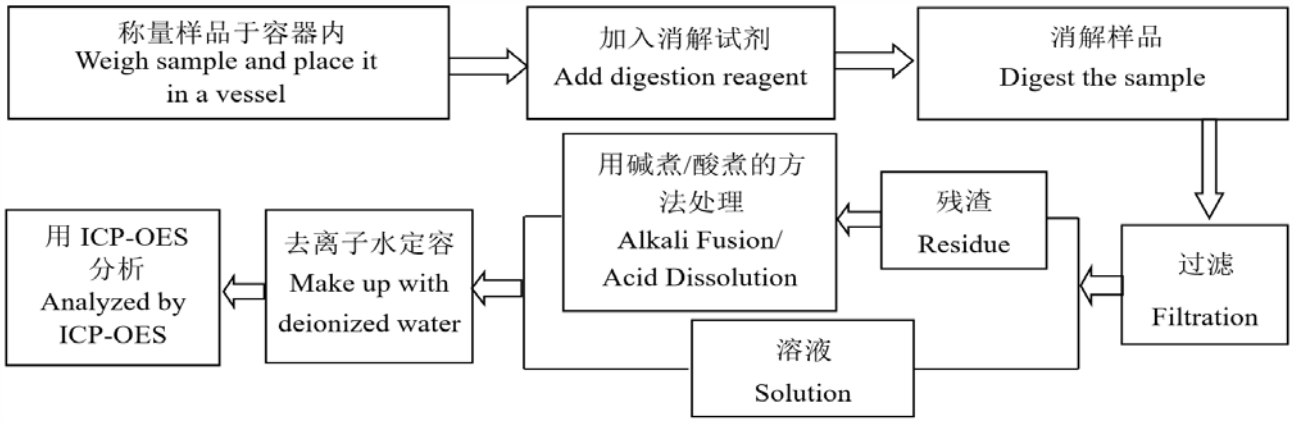
1. 铅(Pb)， 镉(Cd)

Lead (Pb), Cadmium (Cd)



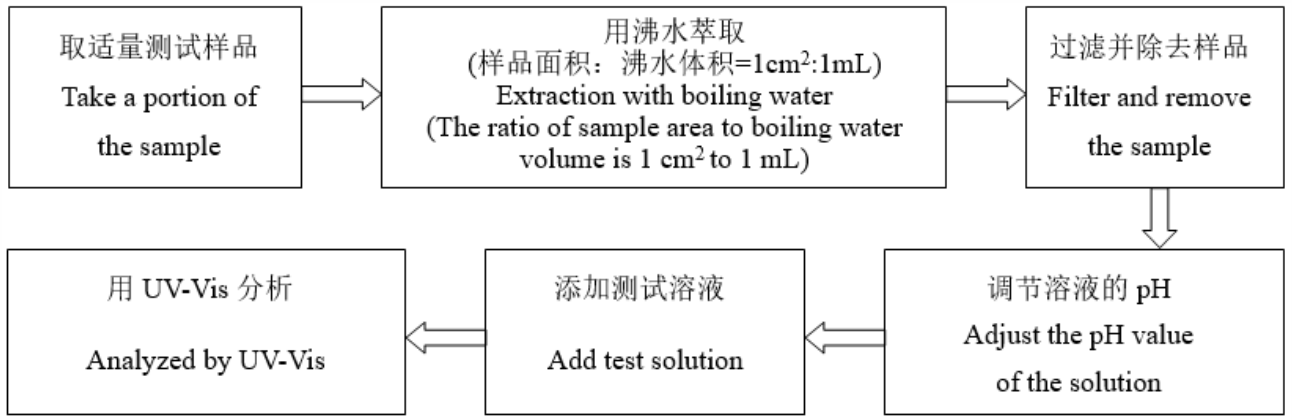
2. 汞(Hg)

Mercury (Hg)



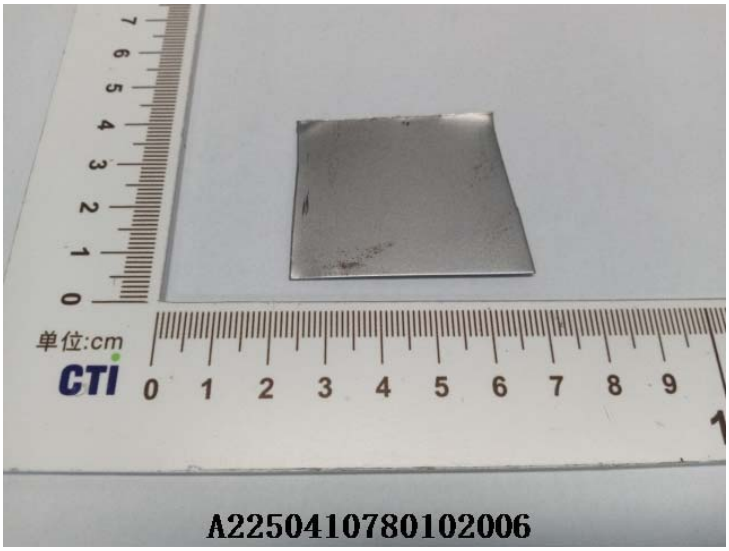
3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



检测报告
Test Report

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 ***

CTI 华测检测

中国认可
国际互认
检测
TESTING
CNAS L1910

Test Report

Report No. A2260028796101001

Company Name shown on Report	XINYU CITY JIULONG GUNDI CO., LTD.
Address	LIANGSHAN DEVELOPMENT ZONE, XINYU CITY, JIANGXI PROVINCE

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

Sample Name	SK85M(SK5M)
Material	SK85M(SK5M)
Sample Received Date	Jan. 12, 2026
Testing Period	Jan. 12, 2026 to Jan. 15, 2026

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), Beryllium(Be) 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: Anso Fang

Anso Fang
Lab Authorized Signatory

Date: Jan. 15, 2026

No. R842631615

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. A2260028796101001

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 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls (PBBs)*	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)*	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)*	IEC 62321-8:2017	GC-MS
Beryllium(Be)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES

Test Report

Report No. A2260028796101001

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. ▼	0.10 μg/cm² (LOQ)

Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)*		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Diphenyl Ethers (PBDEs)*		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

Report No. A2260028796101001

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

Tested Item(s)	Result	MDL
	001	
Beryllium (Be)	N.D.	2 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Silvery grey metal

Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium.**
-According to the client's statement, the reasons for the multiple information in the "sample information" of this report may include (but are not limited to): supplying to different buyers, being sold to different countries or regions, former names, or mixtures of several substances.

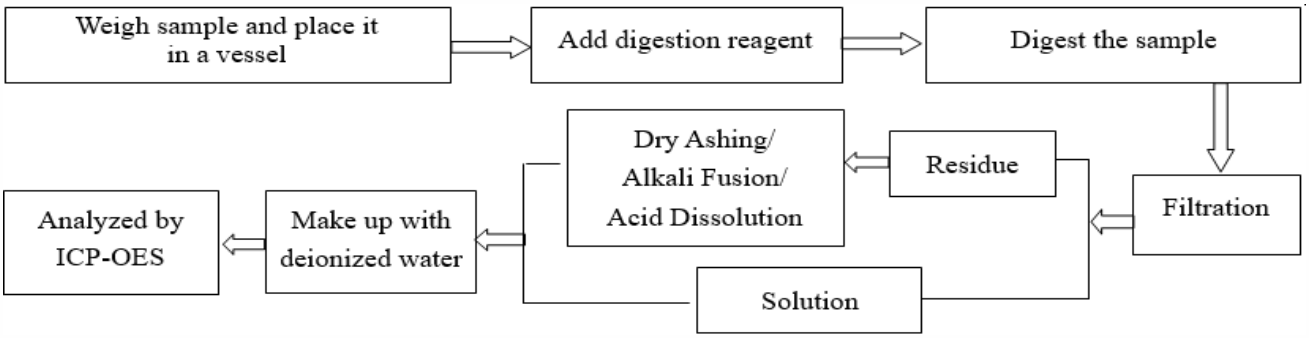
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm ²
-▼The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μg/cm ²; The coating is considered a non-Cr(VI) based coating. 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.

Note: **-"*" indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.**

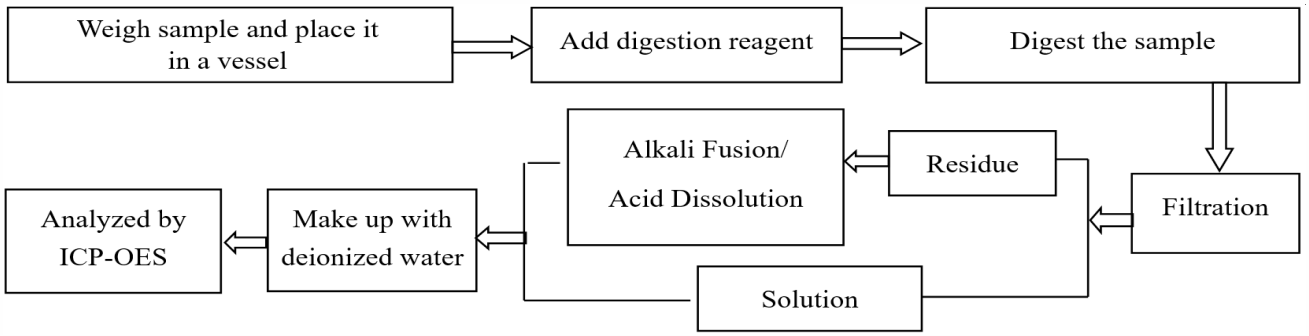
Test Report

Test Process

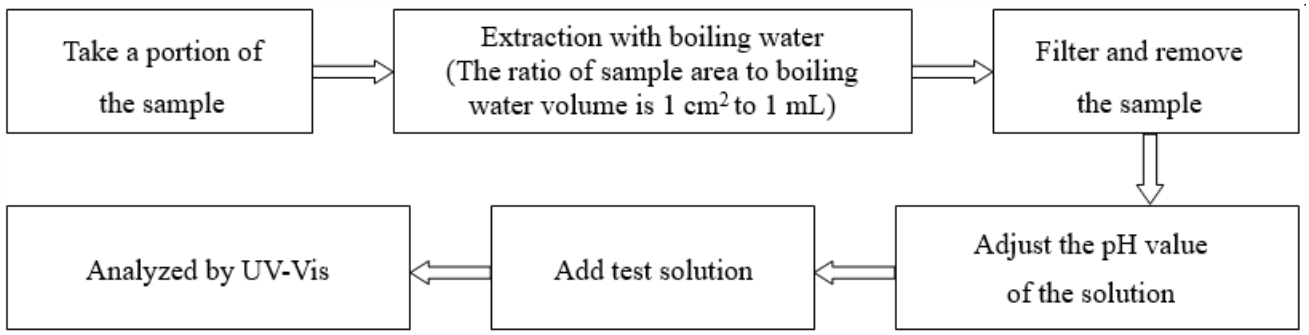
1. Lead (Pb), Cadmium (Cd)



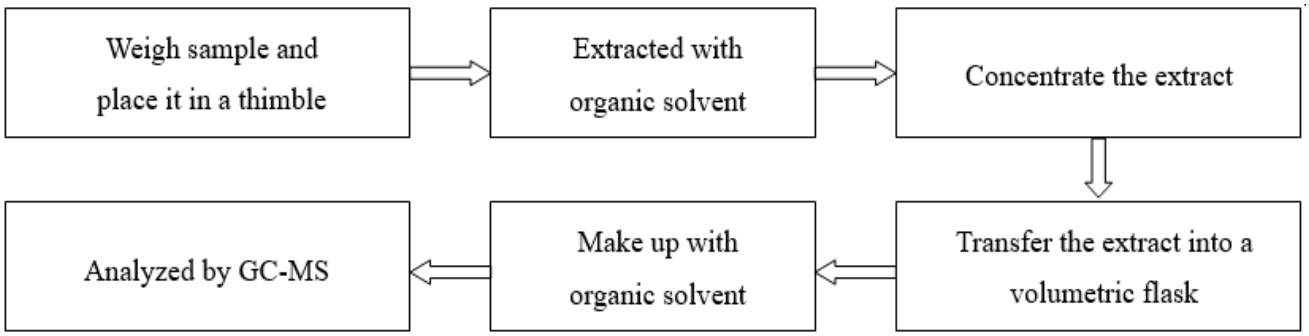
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))

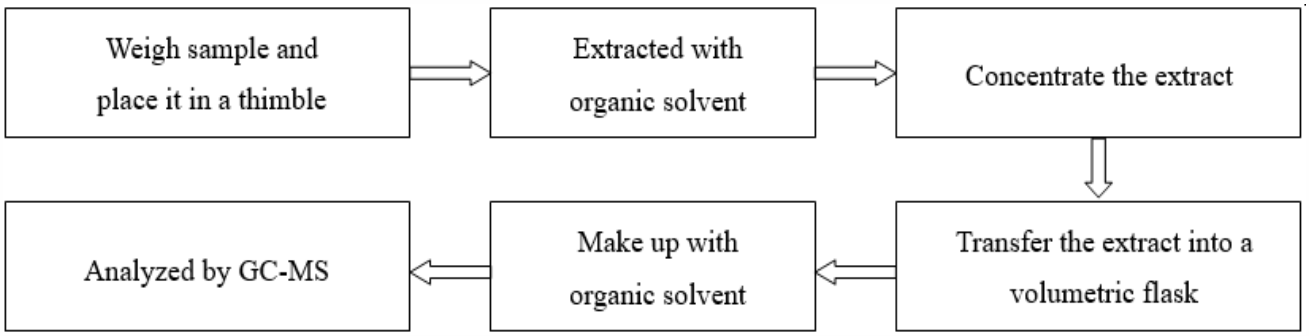


4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

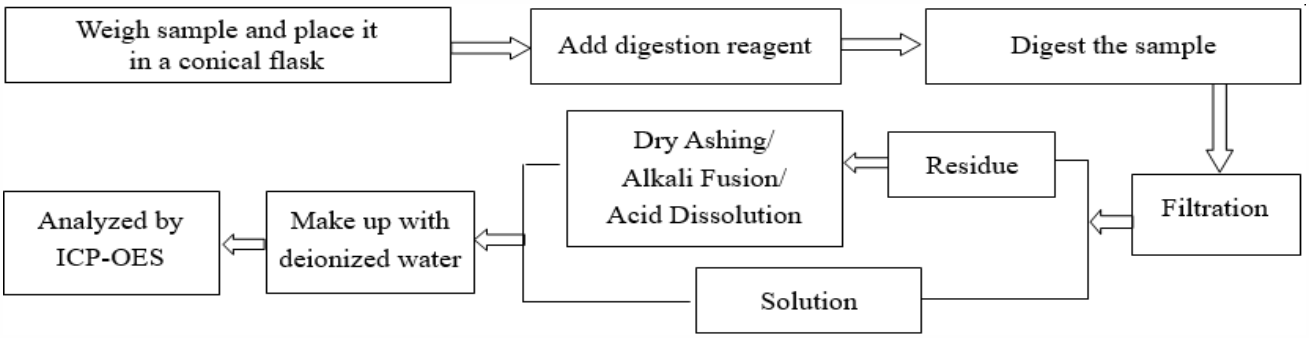


Test Report

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

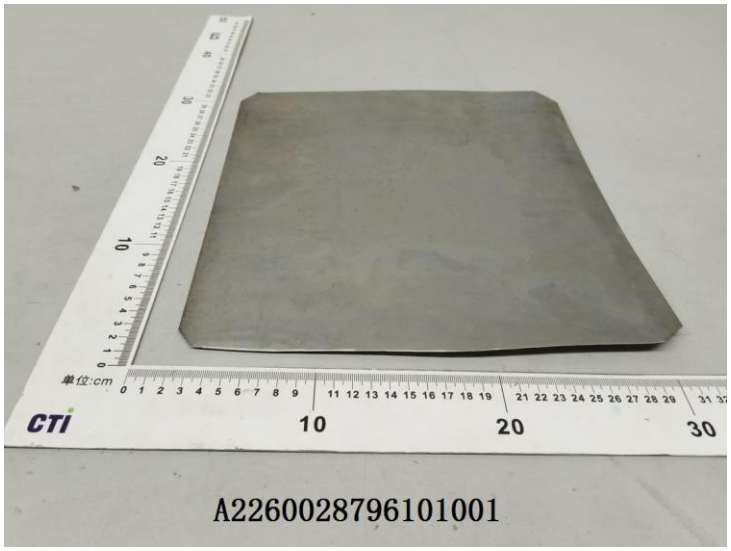


6. Beryllium(Be)



Test Report

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

No.: CANEC26003973515 **Date:** Feb 26, 2026

Client Name: GUANGZHOU COPPER MATERIALS CO., LTD.

Client Address: NO.5 LONGDONG ROAD, HIGH-TECH INDUSTRIAL PARK, CONGHUA GUANGDONG ECONOMIC DEVELOPMENT ZONE, GUANGZHOU CITY, GUANGDONG PROVINCE, CHINA

Sample Name: H65

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

SGS Job No.: GZP26-004078

Sample Receiving Date: Feb 12, 2026

Testing Period: Feb 12, 2026 ~ Feb 26, 2026

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

Arsene Ye

Arsene Ye
Approved Signatory

Scan to see the report

099221BD

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A8	CAN26-0039735-0001.C008	Golden metal sheet

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	A8
Lead (Pb)	1000	mg/kg	2	35
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	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

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Technical Services Chemical Laboratory.

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Test Item(s)	Limit	Unit(s)	MDL	A8
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/cm^2. 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/cm^2). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 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.

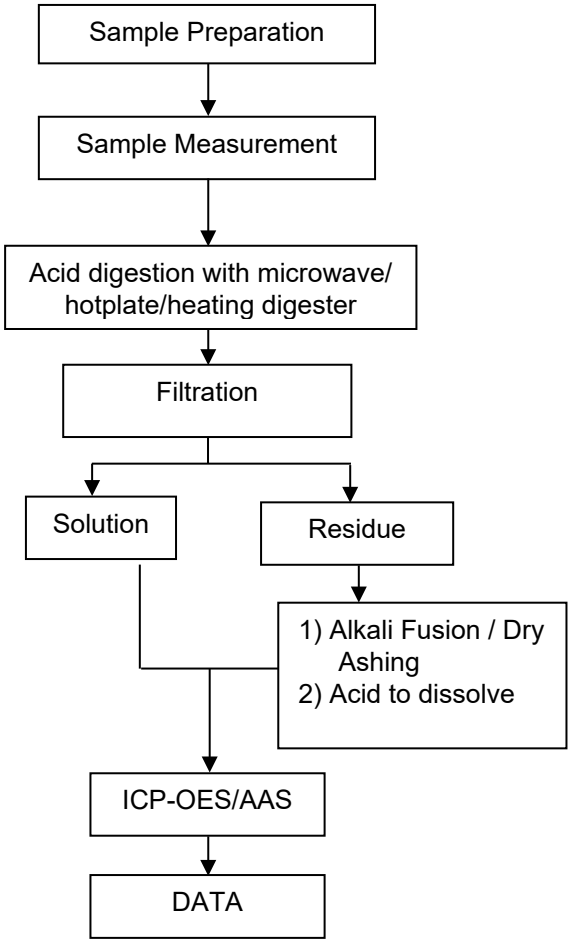
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检验检测专用章 Inspection & Testing Services

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Elements Testing Flow Chart

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

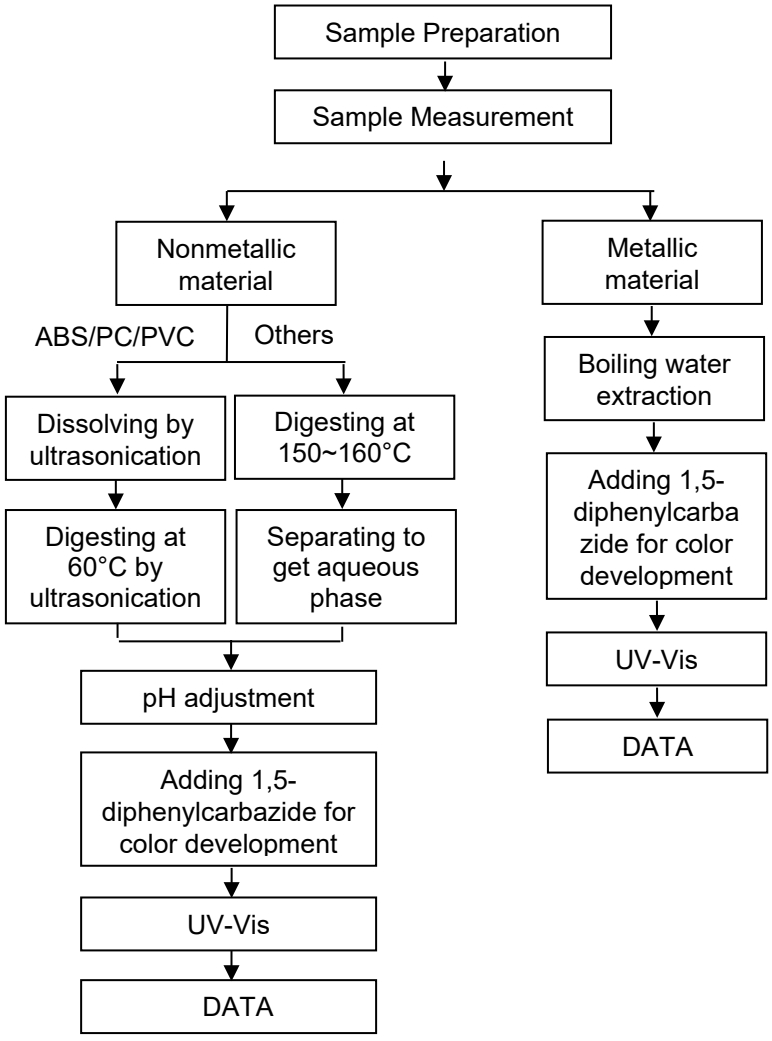


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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart

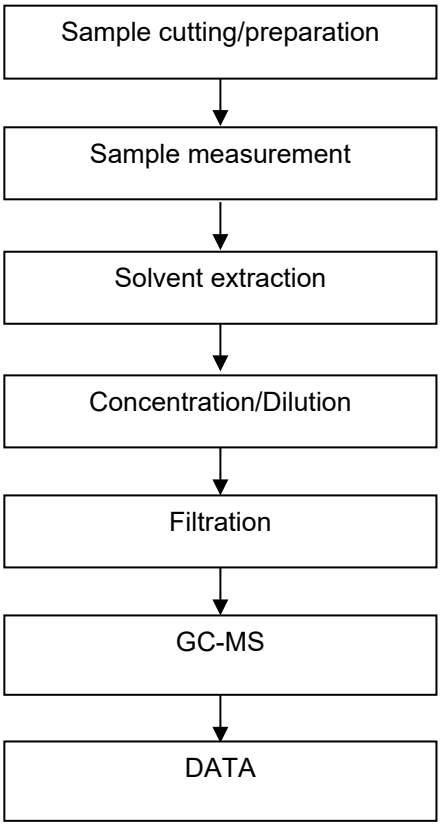


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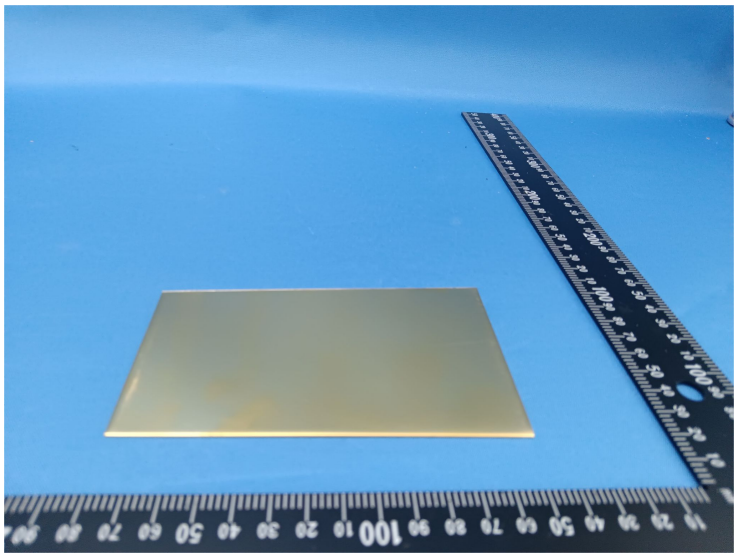
PBB(s)/PBDE(s)/Phthalates Testing Flow Chart



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Sample Photo:



CAN26-0039735-0001.C008

SGS authenticate the photo on original report only

*** End of Report ***

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CTI 华测检测

210900341277

检测报告
Test Report

报告编号 A2250410780102002E
Report No. A2250410780102002E

报告抬头公司名称 昆山德力康电子科技有限公司
Company Name shown on Report KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD
地 址 江苏省苏州市昆山市淀山湖黄浦江南路278号
Address NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

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	rivet
Sample Name	rivet
样品型号	C3602
Model No.	C3602
供应商	骅杰
Supplier	HUAJIE
样品接收日期	2025.06.14
Sample Received Date	Jun. 14, 2025
样品检测日期	2025.06.14-2025.06.20
Testing Period	Jun. 14, 2025 to Jun. 20, 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))进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)) 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

陈凯敏
实验室经理 Lab Manager

日 期
Date 2025.06.20

No. R268857260

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.
上海市闵行区万芳路1351号
No.1351, Wanfang Road, Minhang District, Shanghai, China

检测报告
Test Report

****

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	见备注 See Remark

****

备注Remark：
样品为基材和镀层整体测试。根据客户声明，样品基材中限制物质含量满足欧盟RoHS指令2011/65/EU豁免项第6(c)条要求。
The sample(metal base with plating)was tested as a whole. According to the client's statement, content for the restricted material in the metal base of the sample(s) meet the requirement of exemption items 6(c) according to EU Directive 2011/65/

检测报告
Test Report

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 62321-7-1:2015	UV-Vis

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)	25442 mg/kg*	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	15 mg/kg	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. ▼	0.10 μg/cm² (LOQ)	1000 mg/kg

检测报告
Test Report

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	002	有银色镀层的金属 Metal with silvery plating

备注: **对于检测铅，镉，汞之样品已消解完全。**

-*=根据客户声明，样品涉及欧盟RoHS指令2011/65/EU豁免项第6(c) 条：铜合金中的铅含量不应该超过4%（Wt）。

-N.D. = 未检出 (小于方法检出限或定量限)

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

-LOQ = 定量限, 六价铬的定量限为0.10 μg/cm²

-▼六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。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。

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

-*= According to the client's statement, the material of the sample(s) fall into exemption items 6(c)according to EU Directive 2011/65/EU: Copper alloy containing up to 4 % lead by weight.

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²

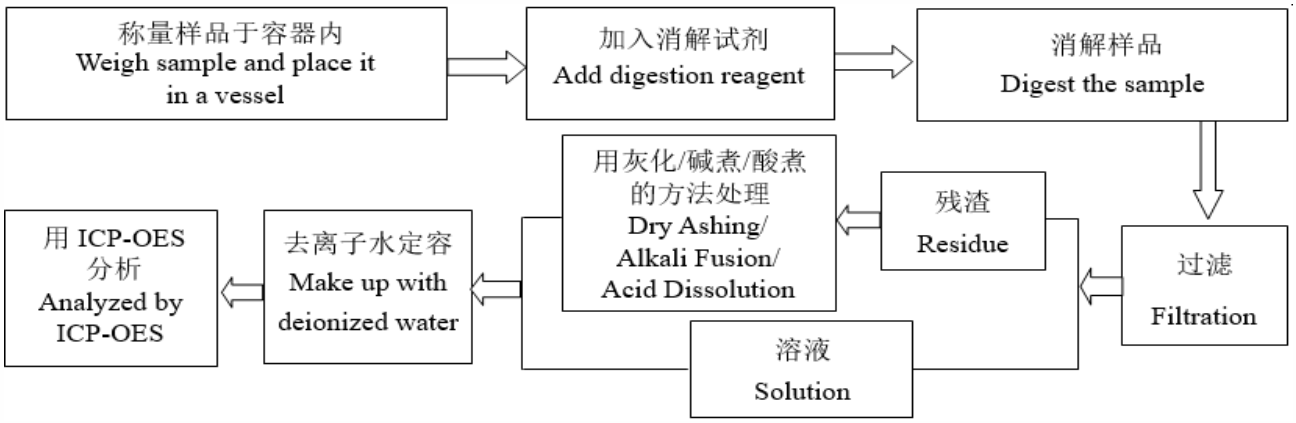
-▼ The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

检测报告
Test Report

检测流程 Test Process

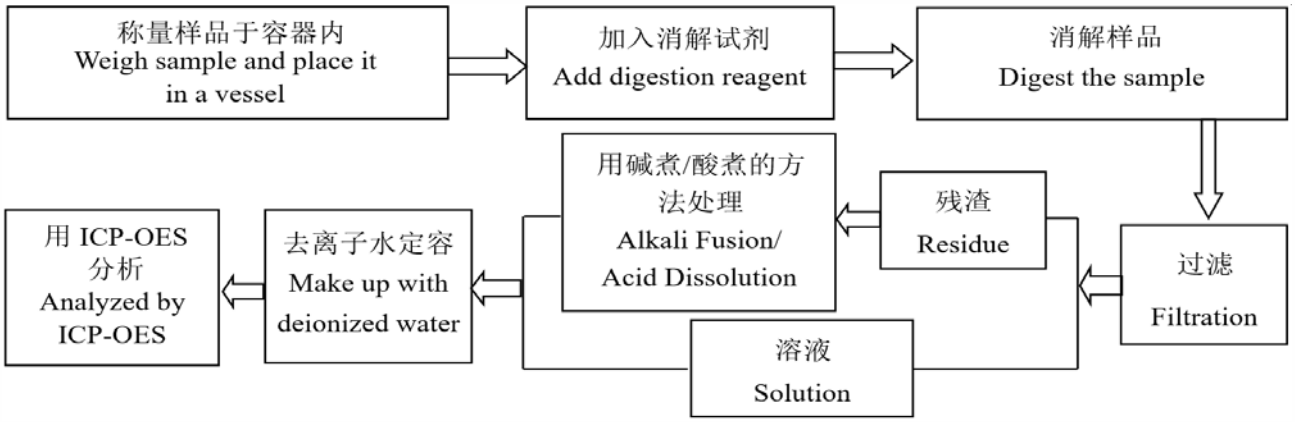
1. 铅(Pb)， 镉(Cd)

Lead (Pb), Cadmium (Cd)



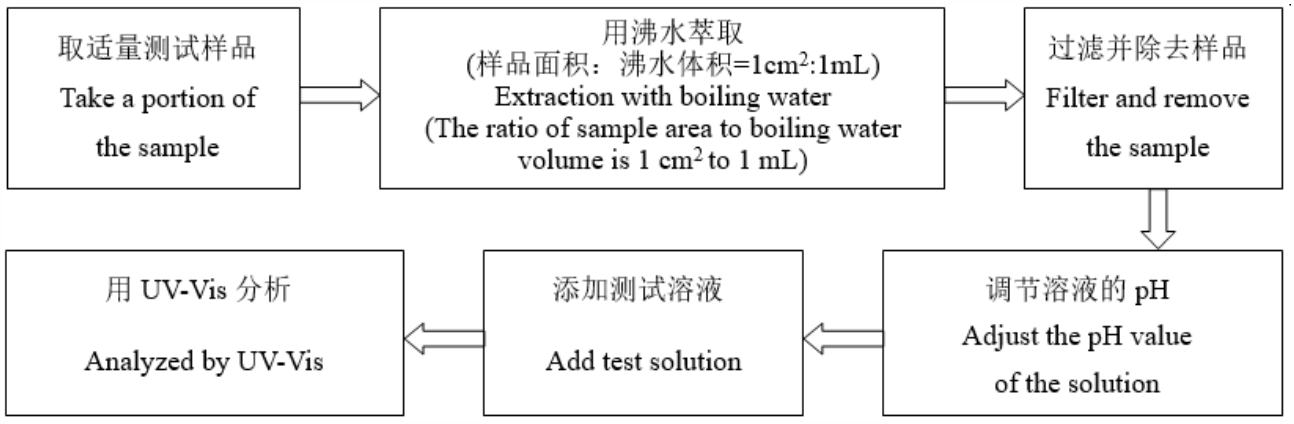
2. 汞(Hg)

Mercury (Hg)



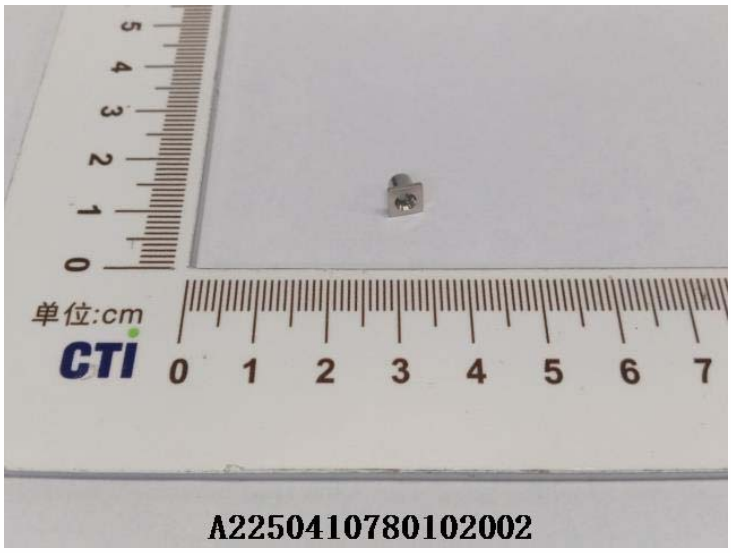
3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



检测报告
Test Report

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 ***

CTI 华测检测

CMA
210900341277

检测报告
Test Report

报告编号 A2250410780102025E
Report No. A2250410780102025E

报告抬头公司名称 昆山德力康电子科技有限公司
Company Name shown on Report KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD
地 址 江苏省苏州市昆山市淀山湖黄浦江南路278号
Address NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

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	Plating
Sample Name	Plating
样品型号	Gold plating
Model No.	Gold plating
供应商	长风
Supplier	CHANGFENG
样品接收日期	2025.06.14
Sample Received Date	Jun. 14, 2025
样品检测日期	2025.06.14-2025.06.20
Testing Period	Jun. 14, 2025 to Jun. 20, 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))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP，BBP，DEHP，DIBP)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) 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

陈凯敏
实验室经理 Lab Manager

日 期
Date 2025.06.20

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. R268857260
上海市闵行区万芳路1351号
No.1351, Wanfang Road, Minhang District, Shanghai, China

检测报告
Test Report

****

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.

检测报告
Test Report

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)	参考IEC 62321-5:2013 Refer to IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	参考IEC 62321-5:2013 Refer to IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	参考IEC 62321-4:2013+AMD1:2017 CSV Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
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

检测报告
Test Report

报告编号 A2250410780102025E
Report No. A2250410780102025E

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
	025		
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. ▼	0.10 μg/cm² (LOQ)	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	025		
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
	025		
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	

检测报告
Test Report

报告编号 A2250410780102025E
Report No. A2250410780102025E

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
	025		
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

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	025	金色镀层 Golden plating

备注: **对于检测铅，镉，汞之样品已消解完全。**

-N.D. = 未检出（小于方法检出限或定量限）
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%
-LOQ = 定量限, 六价铬的定量限为0.10 μg/cm²
-▾六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。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。

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

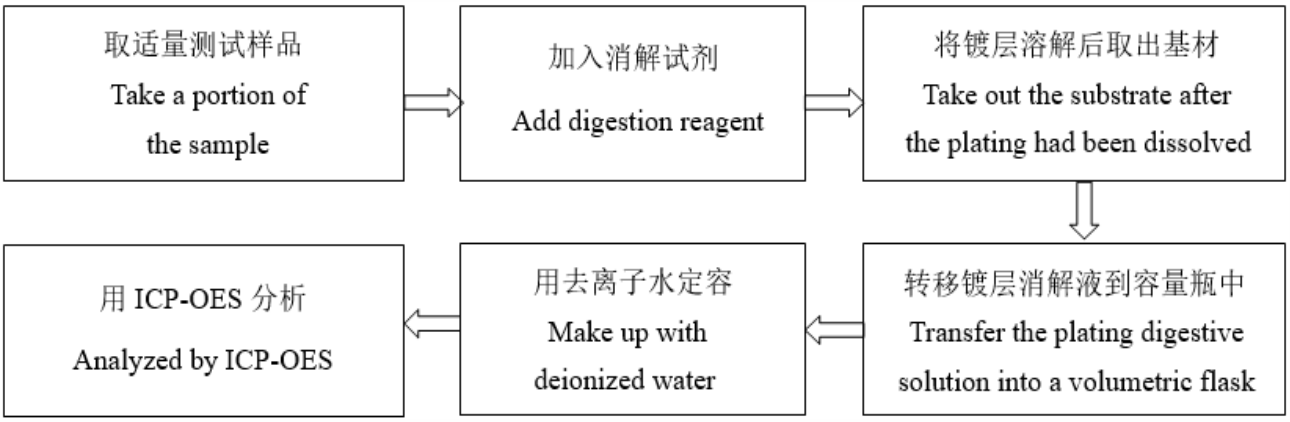
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
-▾ The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. 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.

检测报告
Test Report

检测流程 Test Process

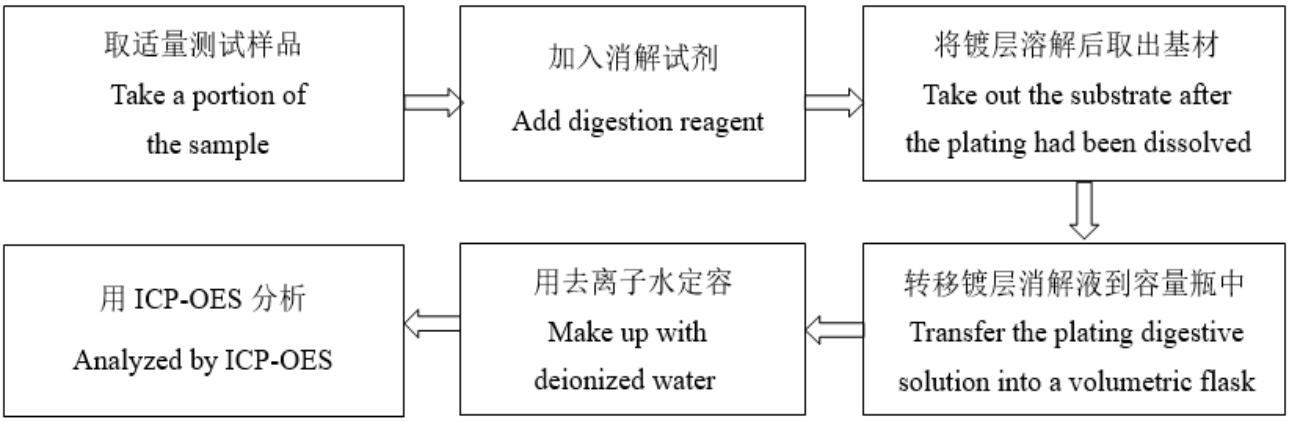
1. 铅(Pb)， 镉(Cd)

Lead (Pb), Cadmium (Cd)



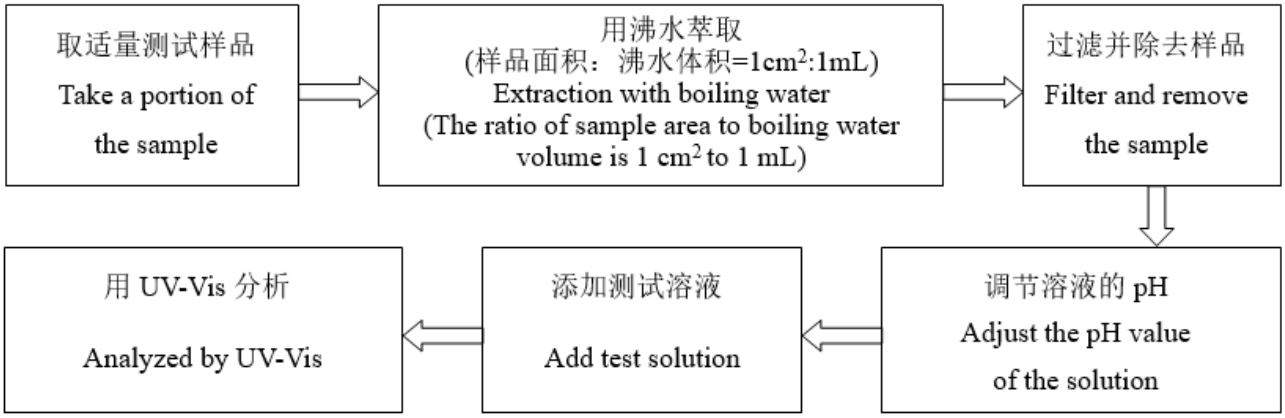
2. 汞(Hg)

Mercury (Hg)



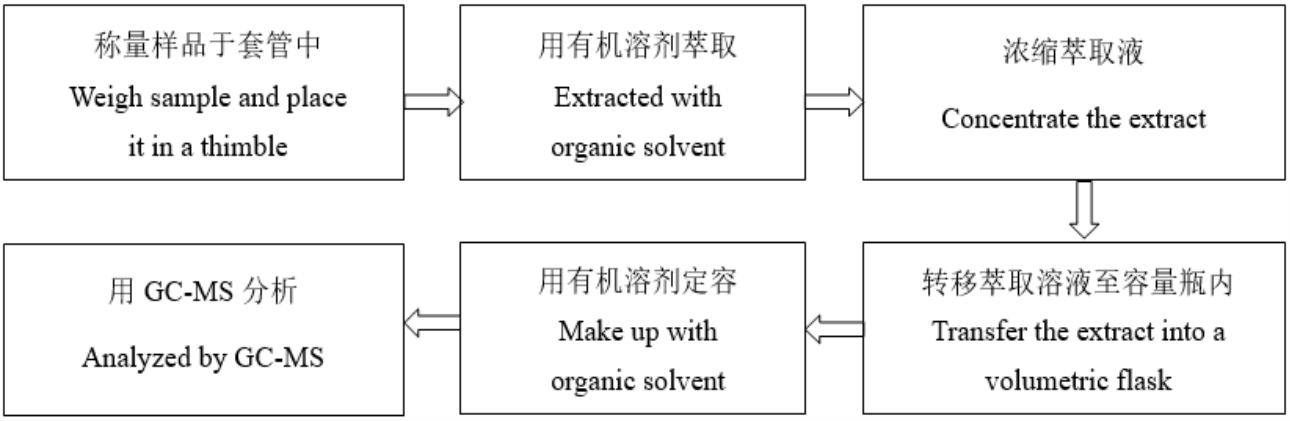
3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



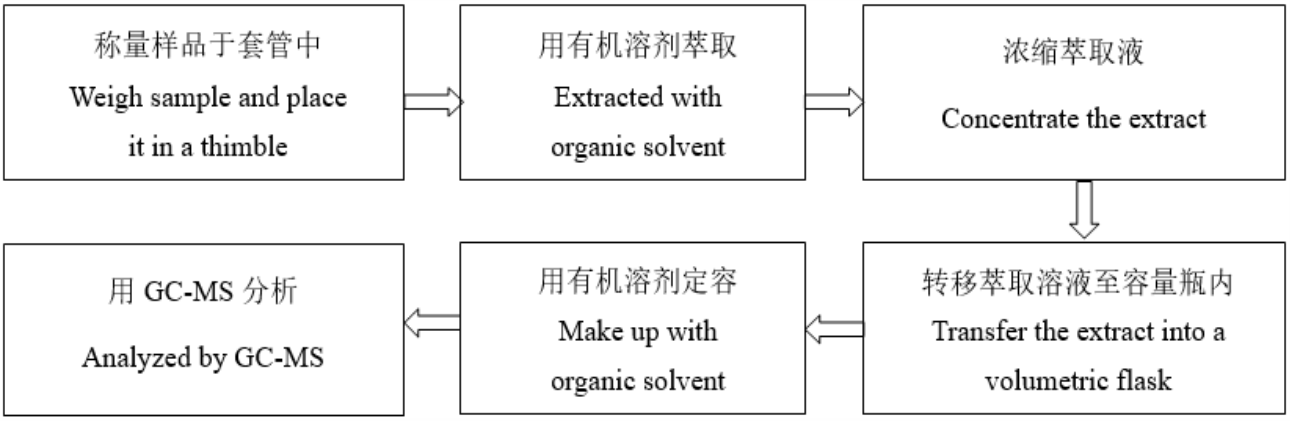
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)

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



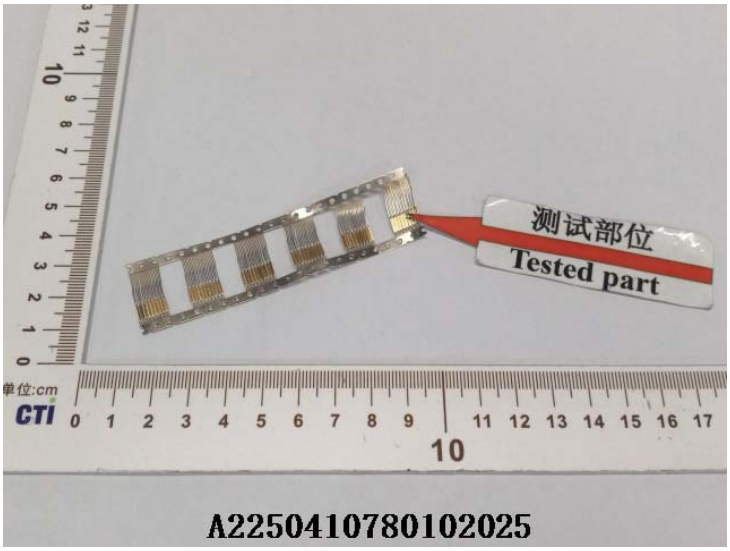
5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



检测报告
Test Report

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；
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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 ***

CTI 华测检测

210900341277

检测报告

Test Report

报告编号 A2250410780102026E
Report No. A2250410780102026E

报告抬头公司名称 昆山德力康电子科技有限公司
Company Name shown on Report KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD
地 址 江苏省苏州市昆山市淀山湖黄浦江南路278号
Address NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

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	Plating
Sample Name	Plating
样品型号	Nickel plating
Model No.	Nickel plating
供应商	长风
Supplier	CHANGFENG
样品接收日期	2025.06.14
Sample Received Date	Jun. 14, 2025
样品检测日期	2025.06.14-2025.06.20
Testing Period	Jun. 14, 2025 to Jun. 20, 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))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP，BBP，DEHP，DIBP)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) 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

陈凯敏
实验室经理 Lab Manager

日 期
Date 2025.06.20

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. R268857260
上海市闵行区万芳路1351号
No.1351, Wanfang Road, Minhang District, Shanghai, China

检测报告
Test Report

****

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.

检测报告
Test Report

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)	参考IEC 62321-5:2013 Refer to IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	参考IEC 62321-5:2013 Refer to IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	参考IEC 62321-4:2013+AMD1:2017 CSV Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
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

检测报告
Test Report

报告编号 A2250410780102026E
Report No. A2250410780102026E

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
	026		
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. ▼	0.10 μg/cm² (LOQ)	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	026		
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
	026		
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	

检测报告
Test Report

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
	026		
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

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	026	银色镀层 Silvery plating

备注: **对于检测铅，镉，汞之样品已消解完全。**

-N.D. = 未检出（小于方法检出限或定量限）
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%
-LOQ = 定量限, 六价铬的定量限为0.10 μg/cm²
-▼六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。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。

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

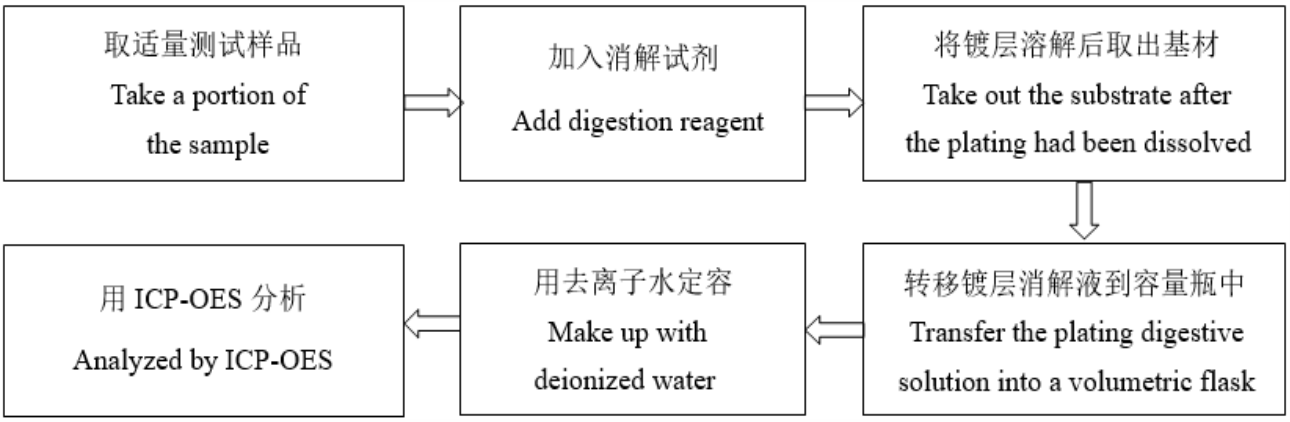
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
-▼ The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. 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.

检测报告
Test Report

检测流程 Test Process

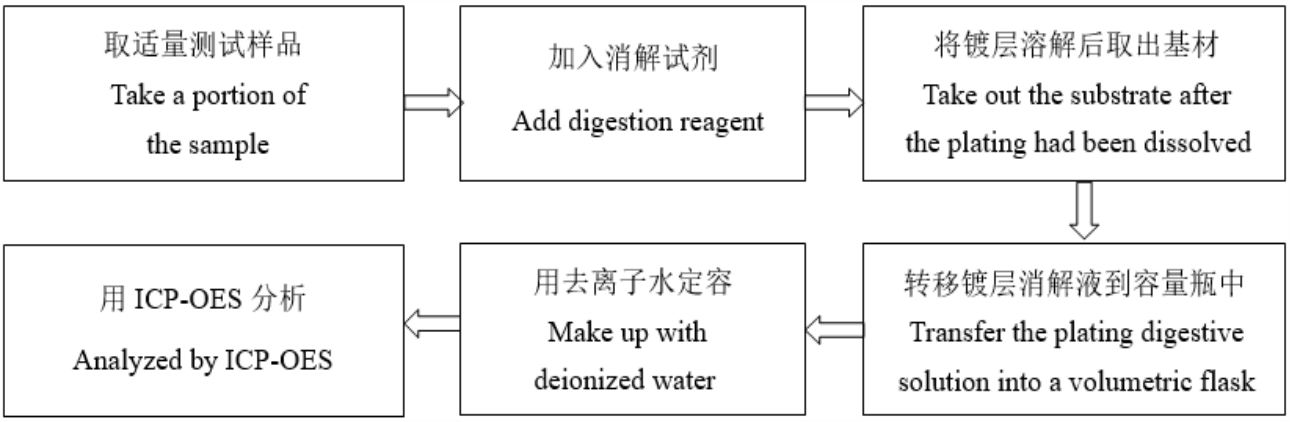
1. 铅(Pb)， 镉(Cd)

Lead (Pb), Cadmium (Cd)



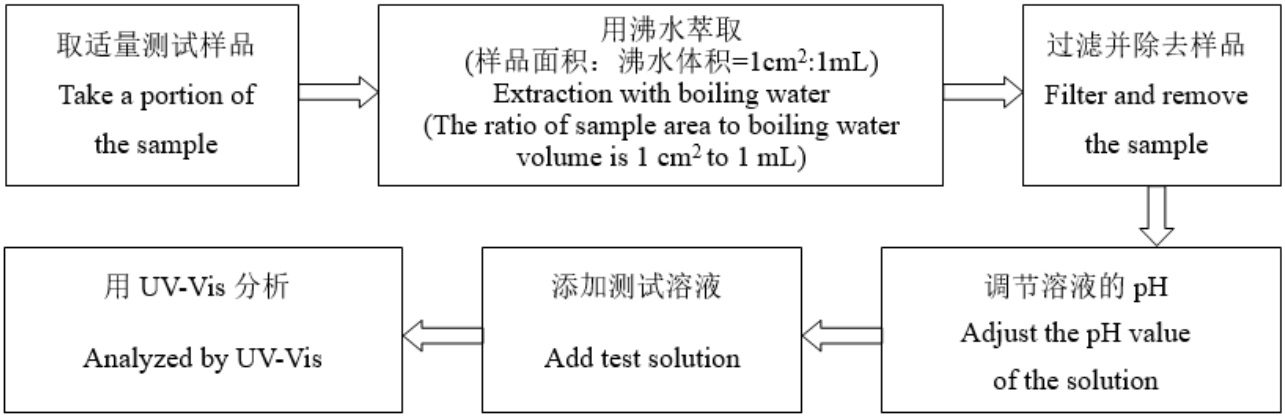
2. 汞(Hg)

Mercury (Hg)



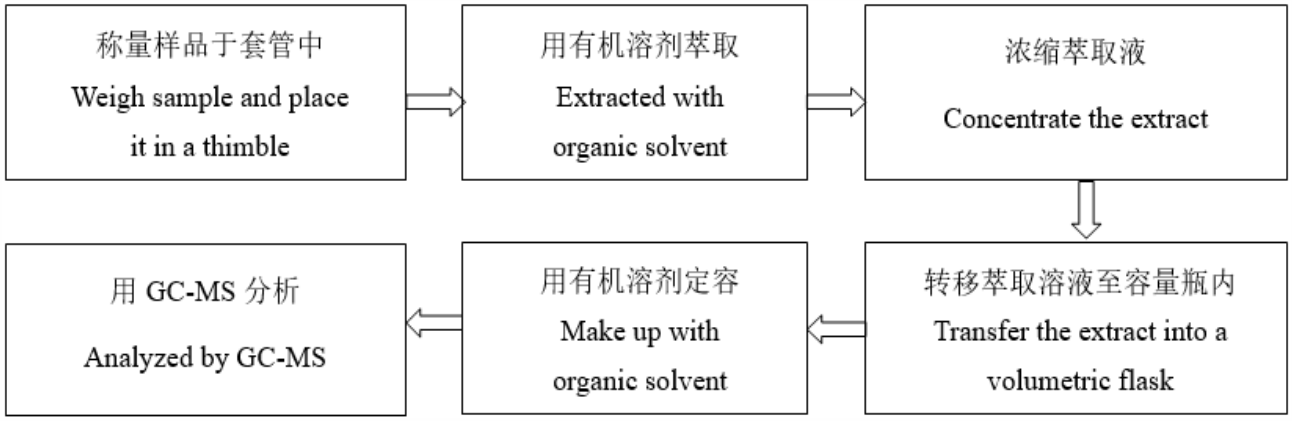
3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



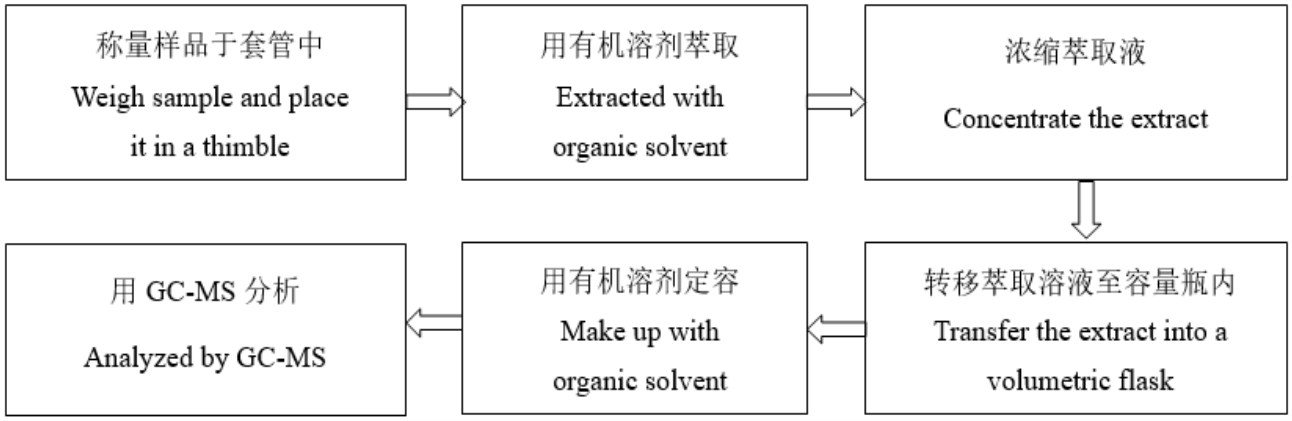
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)

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



5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



检测报告
Test Report

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 ***

CTI 华测检测

210900341277

检测报告

Test Report

报告编号 A2250410780102028E
Report No. A2250410780102028E

报告抬头公司名称 昆山德力康电子科技有限公司
Company Name shown on Report KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD
地 址 江苏省苏州市昆山市淀山湖黄浦江南路278号
Address NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

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	Plating
Sample Name	Plating
样品型号	Fog tin plating
Model No.	Fog tin plating
供应商	长风
Supplier	CHANGFENG
样品接收日期	2025.06.14
Sample Received Date	Jun. 14, 2025
样品检测日期	2025.06.14-2025.06.20
Testing Period	Jun. 14, 2025 to Jun. 20, 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))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP，BBP，DEHP，DIBP)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) 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

陈凯敏
实验室经理 Lab Manager

日 期
Date 2025.06.20

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No. R268857260
上海市闵行区万芳路1351号
No.1351, Wanfang Road, Minhang District, Shanghai, 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.

检测报告
Test Report

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)	参考IEC 62321-5:2013 Refer to IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	参考IEC 62321-5:2013 Refer to IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	参考IEC 62321-4:2013+AMD1:2017 CSV Refer to IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
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

检测报告
Test Report

报告编号 A2250410780102028E
Report No. A2250410780102028E

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
	028		
铅 Lead (Pb)	24 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. ▼	0.10 μg/cm² (LOQ)	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	028		
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
	028		
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	

检测报告
Test Report

报告编号 A2250410780102028E
Report No. A2250410780102028E

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
	028		
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

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	028	银色镀层 Silvery plating

备注: **对于检测铅，镉，汞之样品已消解完全。**

-N.D. = 未检出（小于方法检出限或定量限）
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%
-LOQ = 定量限, 六价铬的定量限为0.10 μg/cm²
-▼六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。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。

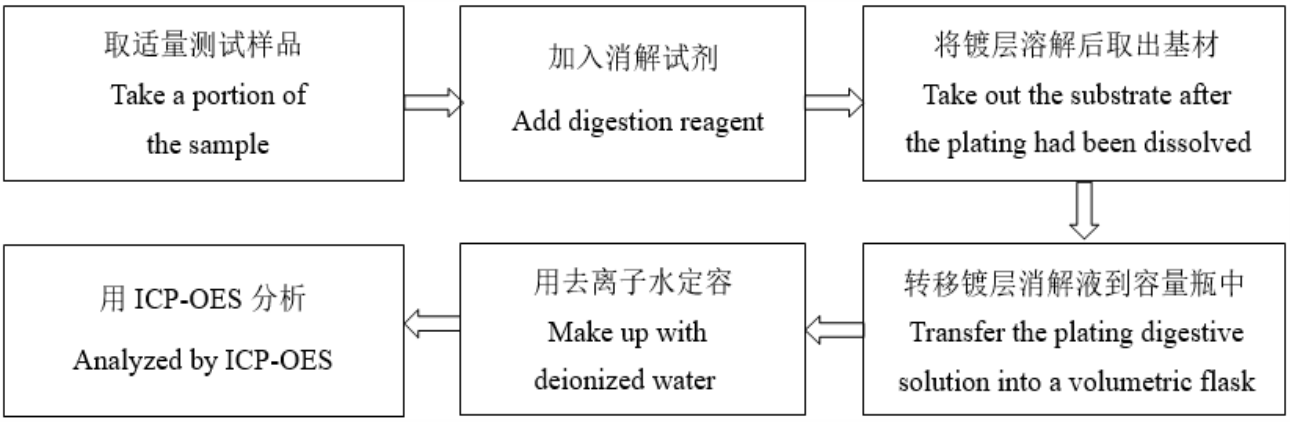
Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**

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-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
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-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
-▼ The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. 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.

检测流程 Test Process

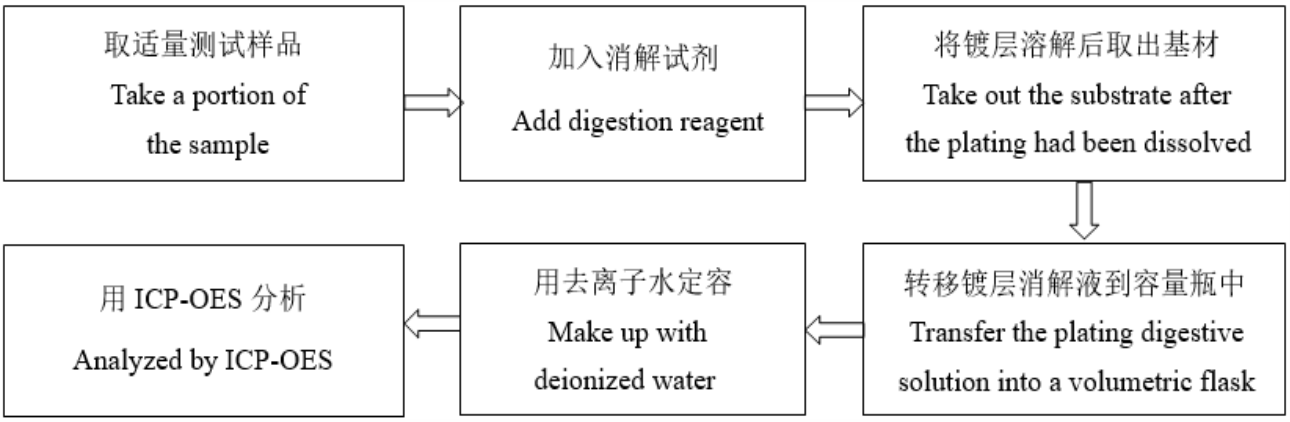
1. 铅(Pb)， 镉(Cd)

Lead (Pb), Cadmium (Cd)



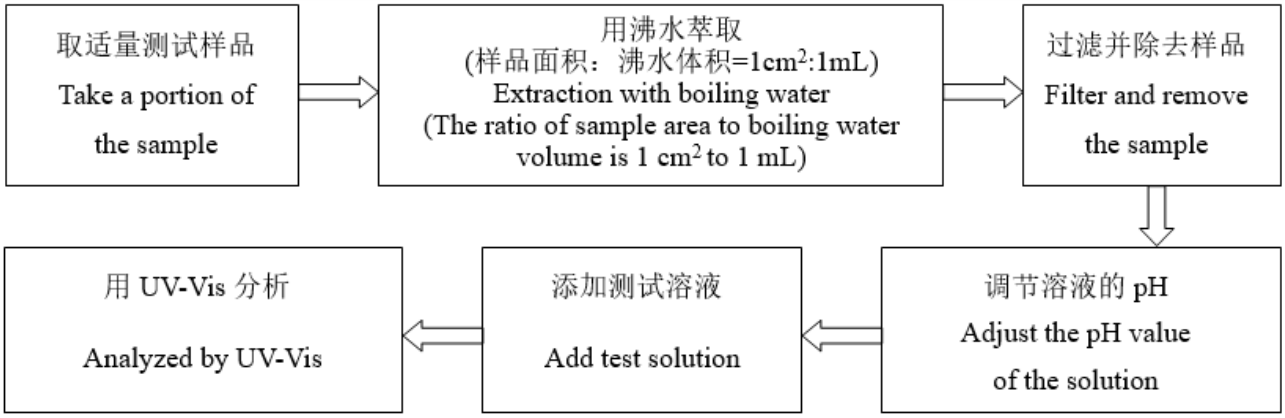
2. 汞(Hg)

Mercury (Hg)



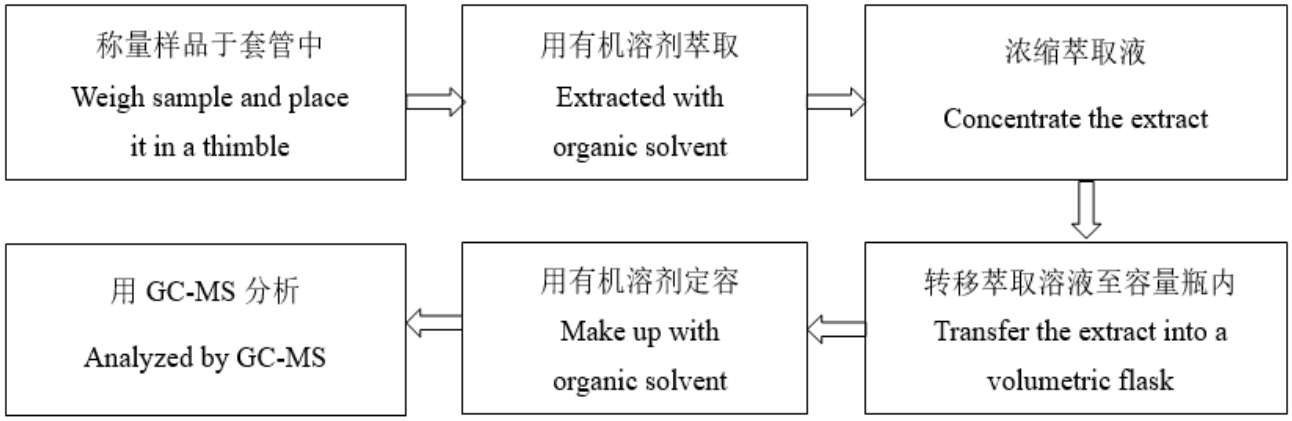
3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



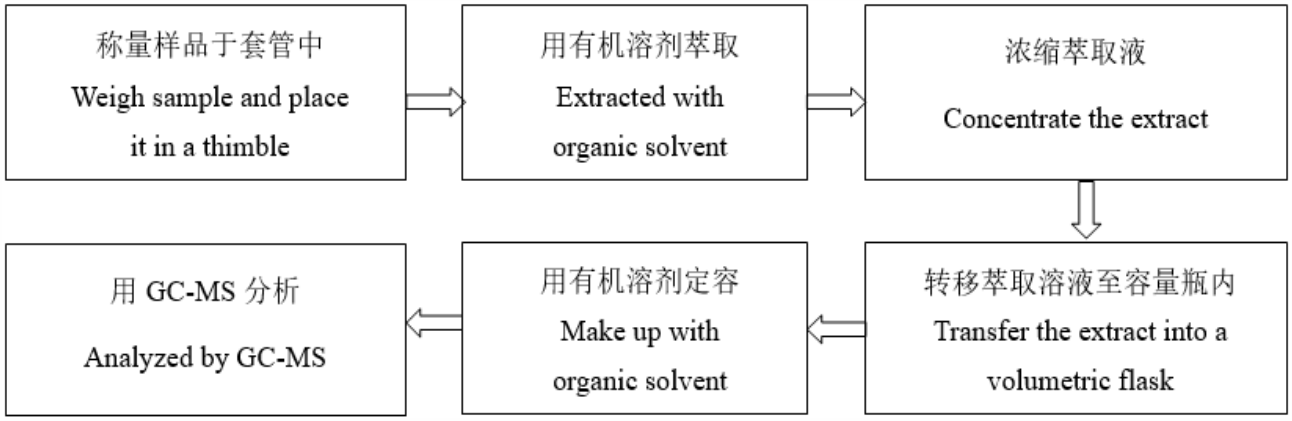
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)

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



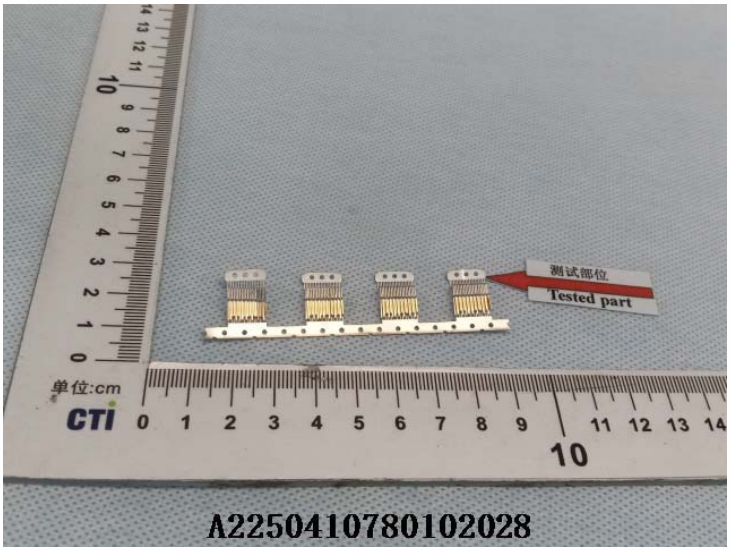
5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



检测报告
Test Report

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;
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报告结束

*** End of report ***

环境管理物质不使用证书
（原材料及原材料厂家 LIST）

向贵司销售的零部件及组件的使用材料、包装材料等中未使用 **DLK**《环境管理物质技术标准》（**508000-D-002**）要求的管理物质（禁止使用对象）及其用途，特此证明。

且：零部件及组件的使用在材料，由以下成分构成。特此报告

1. 零件料号：DSB8JD-09BS1YN30

以下清单所列均质原材料为本产品中所用到的所有原材料

ITEM	Raw Material	Raw Material Supplier	Cd	Pb	Cr^{6+}	Hg	PBB/PBDE	Cl	Br	PAHs	第三方测试报告号码
			含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	
Housing/ Cover	PBT	TS/DLK	N.D	N.D	N.D	N.D	N.D	440	55464		A2250410780101011E
Shell	SPCC	HW/DLK	N.D	N.D	N.D	N.D					A2250410780102006E
Contact	C2680	GT/DLK	N.D	35	N.D	N.D					CANEC26003973515
RIVET INSERT	SK5	JL/DLK	N.D	N.D	N.D	N.D	N.D				A2260028796101001
RIVET	C3602	HJ/DLK	15	25442	N.D	N.D					A2250410780102002E
Plating Au	Au	CF/DLK	N.D	N.D	N.D	N.D	N.D				A2250410780102025E
Plating Tin	Tin	CF/DLK	N.D	24	N.D	N.D	N.D				A2250410780102028E
Plating Ni	Ni	CF/DLK	N.D	N.D	N.D	N.D	N.D				A2250410780102026E

2、 ICP 测试对象物质（塑料（含橡胶）涂料、油墨和线材料中的镉和铅）测试要求的 ICP 数据另附。ICP 测试对象物质的成分表或 MSDS 另附。

备注：请填写该类零部件用到的所有部件、原材料、辅助材料的详细信息。

必须详细、正确的填写部件、原材料、辅助材料的供应商名称、材料型号

主管/职位：

公司全称：昆山德力康电子科技有限公司

公司公章：