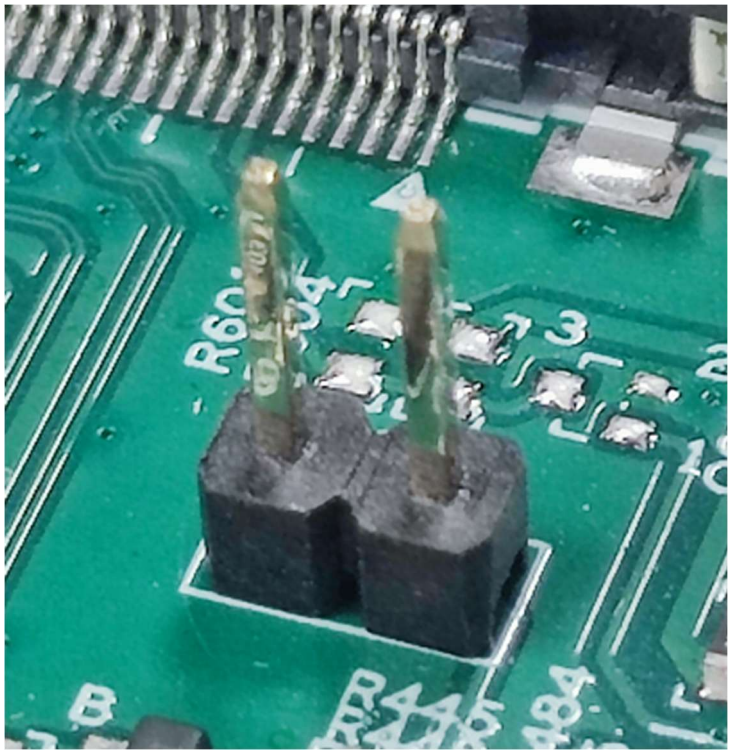
2Pin 實照



設計驗證
工程課
2024-12-18
發行

乔讯电子（上海）有限公司

Chyao Shiunn Electronics(Shang Hai) Co.,Ltd.

Specification For Approval

Customer	钰纬
Part No.	JS-1109-02（6.0/2.7）
Customer Part No.	3FM00217310 (F0307)
Description	**2.54mm pitch Conector**
Samples	**5 PCS**

設計驗證
工程課
2024-12-18
發行
鈺緯科技開發股份有限公司

This Specification Is

Prepared By	Checked By	Approved By
Li Lian	Tang Nian	Tang Nian
Ini. Date	Rev. Date	Revision
2024.12.06	2024.12.06	A

Address: Unit B,1/F, Block 46,No,299,Fu Te Chung Road Waigaoqiao Free Trade Zone,ShangHai China

上海市外高桥保税区富特中路299号46号厂房

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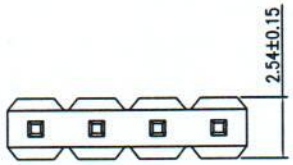
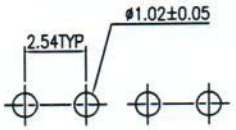
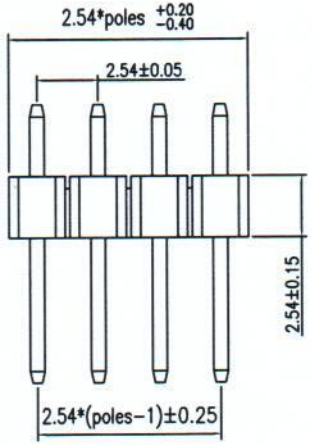
E-mail:cssh@cssh.net.cn

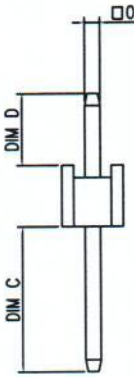
REV	ECN.NO.	REVISIONS	REV.DRAWN	DATE
U		增加DIP规格	zhangqiang	2020.10.26
V		增加DIP规格	CaiQiang	2021.04.16





Recommand PCB Layout





出圖 2021.04.20 工程師

SPECIFICATIONS

. Voltage Rating : 250V AC/DC
. Current Rating : 3A AC/DC
. Withstanding Voltage : 1000V AC/minute
. Insulation Resistance : 1000MΩmin
. Temperature Range : −25°C to +85°C
. Contact Resistance : 20mΩmax

HOUSING

. Part No. : JS-1109-XXX(XX/XX)-XXXX-XX

- ⚠ Poles : 01~40
- Blank : Gold Plated
- G5 : Gold Plated(Au>10u")
- Blank : P.B.T
- U1 : PA6T+30%GF
- Blank&BK : Black
- Blank: Normal
- NH: Halogen Free

. Material :Contact: Brass, Gold Plated Plated
. Halogen free product identification LOGO on the packing

PART NUMBER	DIM C	DIM D
⚠ JS-1109-XX(5.84/5.08)	5.84	5.08
⚠ JS-1109-XX(2.4/3.0)	2.40	3.00
⚠ JS-1109-XX(6.75/2.9)	6.75	2.90
JS-1109-XX(15/3)	15.00	3.00
JS-1109-XX(13.7/2.6)	13.70	2.60
⚠ JS-1109-XX(3.0/3.0)	3.0	3.0
⚠ JS-1109-XX(4.5/3.0)	4.5	3.0
⚠ JS-1109-XX(10.0/3.0)	10.0	3.0
⚠ JS-1109-XX(3.0/3.5)	3.0	3.5
⚠ JS-1109-XX(12.5/10.0)	12.5	10.0
⚠ JS-1109-XX(18.3/2.8)	18.3	2.8
⚠ JS-1109-XX(2.8/3.16)	2.8	3.16
⚠ JS-1109-XX(5.85/5.05)	5.85	5.05
⚠ JS-1109-XX(8.60/3.00)	8.60	3.00
⚠ JS-1109-XX(6.00/3.50)	6.00	3.50

PART NUMBER	DIM C	DIM D
JS-1109-XX	6.00	3.00
JS-1109-XX(5.0/3.0)	5.00	3.00
JS-1109-XX(14.0/3.0)	14.00	3.00
JS-1109-XX(6.3/3.0)	6.30	3.00
JS-1109-XX(3.3/3.3)	3.30	3.30
⚠ JS-1109-XX(4.0/3.0)	4.00	3.00
⚠ JS-1109-XX(6.0/2.7)	6.00	2.70
⚠ JS-1109-XX(5.0/4.0)	5.00	4.00
⚠ JS-1109-XX(5.0/5.0)	$5.00^{+0}_{-0.2}$	$5.00^{+0}_{-0.2}$
⚠ JS-1109-XX(3.5/3.5)	3.50	3.50
⚠ JS-1109-XX(7.5/3.6)	7.50	3.60
⚠ JS-1109-XX(7.5/3.0)	7.50	3.00

設計驗證 工程課 2024-12-18 發行 旺詮科技開發股份有限公司

3FMxxx17310(F0307)

符合环境管理物质

X.± 0.50	X°± 3.0°	UNITS mm	NAME(INTENDED USE) CUSTOMER
.X± 0.40	.X°± 2.0°	MAT'L	
.XX± 0.25	.XX°± 1.0°		PART NO.(INTENDED USE) JS-1109-XX(XX/XX)-XXXX
.XXX± 0.12	.XXX°± 0.5°	FINISH	APPD:
		Q'TY	CHKD:
			DR: ASIMO 09-07/07

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CHYAO SHIUNN ELECTRONIC (SHANGHAI) CO.,LTD.

TITLE: 2.54mm Crimp Style Connector

DWG NO.: 020-0021-1109-XX

SCALE	SHEET	REV.
2:1	1/1	/

喬訊電子工業股份有限公司
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Type Document	Product Specification	Revised / Edition	*M*
Date Issued	*2004/02/17*	Data Revised	*2019/05/23*
Subject: JS-1105 /B/B1 JS-1106/B JS-1107 JS-1108 /T JS-1108S/L/H-T JS-1109/B JS-1110 Pitch 2.54mm Single-Row/Dual-Row DIP Series WTB Connector			**Issued By: Engineering Dept.**

This specification is referred to Pitch 2.54mm

Single-Row/Dual-Row DIP Series WTB Connector.

-INDEX-

1.0 Product Name/Part Number & Drawing Number.

2.0 Construction/Dimensions/Material & Surface Finish.

3.0 Characteristic.

4.0 Specimen.

5.0 Applicable Standards

6.0 Mechanical Performance.

7.0 Electrical Performance.

8.0 Environmental Performance.

9.0 Insertion Force & Retention Force Requirement.

10.0 Remark

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1.0 Product Name/Part Number & Drawing Number:

Product Name			Part Number	Drawing Number
Terminal			JS-1108/1108S/L/H-T	JS-1108/1108S/L/H-T
Housing	*Single-Row*		JS-1108	JS-1108-XX
	Dual-Row		JS-1105/1105B/1105B1	JS-1105/1105B/1105B1-XX*2
Headers	*Single Row*	Straight	JS-1109/*B*	JS-1109/*B*-XX
		Right Angle	JS-1110	JS-1110-XX
	Dual Row	Straight	JS-1106/*B*	JS-1106/*B* -XXx2
		Right Angle	JS-1107	JS-1107-XXx2

2.0 Construction/Dimensions/Material & Surface Finish:

Part Name		Material	Surface Finish
Terminal		Brass	Tin-Plated/Gold Plated
Housing		PBT	UL 94V-0
Headers	Post	Brass	Gold-Plated
	Base	PBT / Nylon 6T	UL 94V-0

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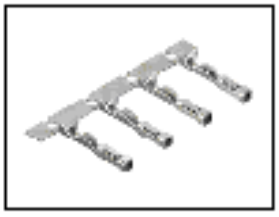
3.0 Characteristic:

Item		Standard	
3.1	Rated Current	3A AC/DC (With AWG #22 is applied)	
3.2	Rated Voltage	250V AC/DC	
3.3	Ambient Temperature Range	Operating Temp.:(Insulator Nylon 6T : -45~+105) ; (Insulator PBT: -25~+85) Including 30℃ Terminal Temperature Rise at rated Current , Non-operating Temp. :(Insulator Nylon 6T : -45~+105) ; 90% R.H. Max (Insulator PBT: -25~+85; 90% R.H. Max)	
3.4	Applicable Wire	3.4.1	Conductor Construction Size: AWG #22~#28
		3.4.2	Wire Insulation O.D.: 1.2mm ~ 1.6mm
3.5	Applicable Printed Circuit Board (PCB)		Thickness: 0.8 mm ~ 1.6 mm
			Hole Size: 1.00 ± 0.05 m
			Hole Pitch: 2.54 ± 0.05 mm

4.0 Specimen:

Part Name	Part Number	Picture or Photograph
Contact	JS-1108/1108S/L/H-T	

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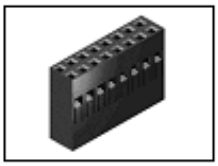
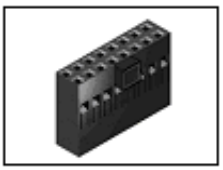
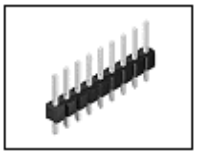
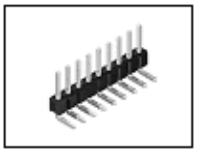
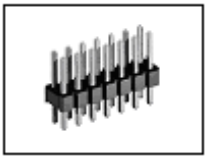
Housing	***Single Row***	**JS-1108-XX**		
	Dual Row	**JS-1105-XXx2**		
		JS-1105B-XXx2		
		JS-1105B1-XXx2		
Headers	***Single Row***	**Straight**	**JS-1109/B-XX**	
		Right Angle	**JS-1110-XX**	
	Dual Row	**Straight**	**JS-1106/*B* -XXx2**	
		Right Angle	**JS-1107XXx2**	

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5.0 Applicable Standards:

MIL-STD-202 Methods by test of connectors for electronic equipment.

EIA 364 Testing method for electrical connectors.

6.0 Mechanical Performance:

Item		Test Condition		Requirement
6.1	Insertion & Retention Force	Insert and withdraw with connectors at the speed rate of 25mm/minute. (EIA/ECA 364-13D)		Per Contact Insertion Force : 0.8kg/f Max Retention Force : 0.03kg/f Min
6.2	Crimp Tensile Strength	Pull with contact terminal at the speed rate of 25mm/minute. (CSA C22.2 No.182.3)	AWG#22 size wire	5.0kgf/Min.
			AWG#24 size wire	3.0kgf/Min.
			AWG#26 size wire	2.0kgf/Min.
			AWG#28 size wire	1.0kgf/Min.
6.3	Contact Retention Force	Withdraw with contact terminal at the speed rate of 25mm/minute. (EIA/ECA 364-29C)		1.5kgf/Min.
6.4	Post Retention Force	Use a tension gauge to press the post at the speed rate of 25mm/minute. (EIA/ECA 364-29C)		0.8kgf/Min.

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7.0 Electrical Performance:

Item		Test Condition	Requirement
7.1	Contact Resistance	A maximum voltage of 20mV and a maximum current of 10mA are applied to the Mate connectors. (EIA/ECA 364-23C)	Contact Resistance: 20 milliohms Max.
7.2	Current Continuity	Each circuit of the connector shall be connected in series. Continuity meter shall inspect current discontinuity.	No discontinuity current is longer than 1 microsecond.
7.3	Insulation Resistance	Apply 500V D/C to any two adjacent contacts to measure the insulation resistance. (EIA 364-21C)	Insulation Resistance: Initial 1000 megohms Min.
7.4	Withstanding Voltage	Apply 1000V A/C (rms) for 1 minute to the adjacent terminal and ground of the Mate connectors. (EIA 364-20C)	No breakdown or flashover.

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8.0 Environmental Performance:

Item		Test Condition	Requirement
8.1	Durability	Mate Connectors up 30 Cycles at a Maximun rate of 10 cycles Per minute prior to environmental test (EIA/ECA 364-09C)	(After the test) Contact Resistance: 40 milliohms Max.
8.2	Vibration	Frequency: 10~55~10 Hz/minute. Amplitude: 1.5 mm P-P. Direction: 1. Axis of up and down. 2. Axis of right the left. 3. Axis of front and back. Period: 2 hours for each direction. (EIA/ECA 364-28E)	(After the test) Contact Resistance: 30 milliohms Max.
			No discontinuity current is longer than 1 microsecond.
8.3	Humidity Steady State	Temperature: 40±2℃. Humidity: 90%~95% (RH). Period: 96 hours continuously. (EIA 364-31B)	(After the test) Contact Resistance: 30 milliohms Max.
			(After the test) Insulation Resistance: 500 Megohms Min.
			(After the test) Withstanding Voltage : No breakdown or flashover
8.4	Heat Aging	Temperature: 85±3℃. Period: 96 hours continuously. (EIA 364-17B)	Contact Resistance: 30 milliohms Max. after the test, And no damage.

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Item		Test Condition	Requirement
8.5	Thermal Shock	One Cycle Consists Of: - 55(+ 0 - 3)℃ for 30 minutes. + 85(+ 3 - 0)℃ for 30 minutes. Time of Cycles: 25 Cycles.	Same as paragraph 8.3
8.6	Salt Spray	Temperature: 35±2℃. Density: 5 % in weight. Period: Terminal or contact (Stamping after tin plated for 8 hours) ; Terminal or contact (Stamping before tin plated for 24 hours).	(After the test) Contact Resistance: 30 milliohms Max
8.7	Solder Ability	Solder Temperature: 245 ± 5℃. Immersion Period: 3±0.5 Seconds Method : 1.5mm From Terminal Tip. (EIA 364-52B)	Solder entirely (Tin Plated : 95% / Gold Plated : 75%) of immersed area must show no voids or pinholes.
8.8	Resistance To Soldering Heat	Resistance to Wave soldering heat when using PBT : Solder Temperature: 245 ± 5℃. Immersion Period: 5±0.5 Seconds	No deformation or damage.
		Resistance to Wave soldering heat when using PA6T : Solder Temperature : 260 ± 5℃. Immersion Period: 5±0.5 Seconds	

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		by soldering iron : **350 ± 5℃ 5±0.5 Seconds.** **Method: 1.5mm from terminal tip and**	

10.0 Remark: Any change or revision for the product specification will not be announced in advance. Please contact our sales representative for the latest information.

for enhanced search functionality please visit UL's **iQ™ family of databases**

Component - Plastics **E52579**

MITSUI CHEMICALS INC

SHIODOME CITY CENTER, #1-5-2, HIGASHI-SHINBASHI, MINATO-KU, TOKYO 105-7117 JP

RA230N(#)

Polyamide 6T (PA6T), "Arlen", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.40	V-0	-	-	65	65	65
	0.80	V-0	-	-	65	65	65
	3.0	V-0	-	-	65	65	65

Comparative Tracking Index (CTI): **0**

Inclined Plane Tracking (IPT): **-**

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

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

High-Voltage Arc Tracking Rate (HVTR): **-**

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

Dimensional Stability (%): **-**

(#) - May be followed by 1 to 4 digits and/or letters

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: 2008-03-18

Last Revised: 2014-06-30

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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)	0.40	V-0 (ALL)
			0.80	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
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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深圳市宝时达橡胶制品有限公司

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.

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Test Report

No.: CANEC24026100202 **Date:** Nov 27, 2024

Client Name: SHANGHAI BONCHANCE ELECTRONLCSCO.,LTD

Client Address: ROOM 20E, BUILDING T1, NO.2601 XIETU ROAD, XUHUI DISTRICT, SHANGHAI

Sample Name: 6T

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

SGS Job No.: SZP24-051277

Sample Receiving Date: Nov 21, 2024

Testing Period: Nov 21, 2024 ~ Nov 27, 2024

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

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

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

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

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

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report
C50EF483

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0261002-0001.C001	Black plastic

Remarks:

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

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

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND

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

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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

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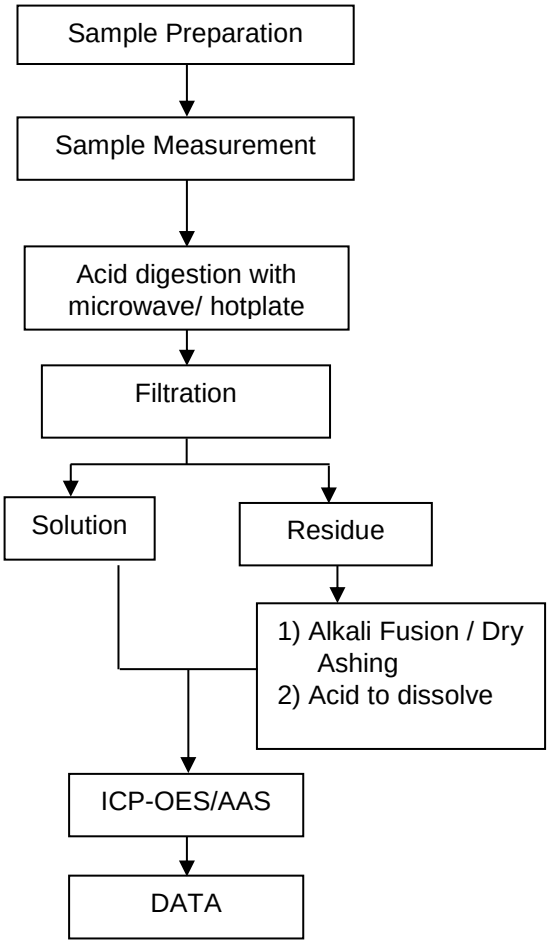
Elements Testing Flow Chart

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



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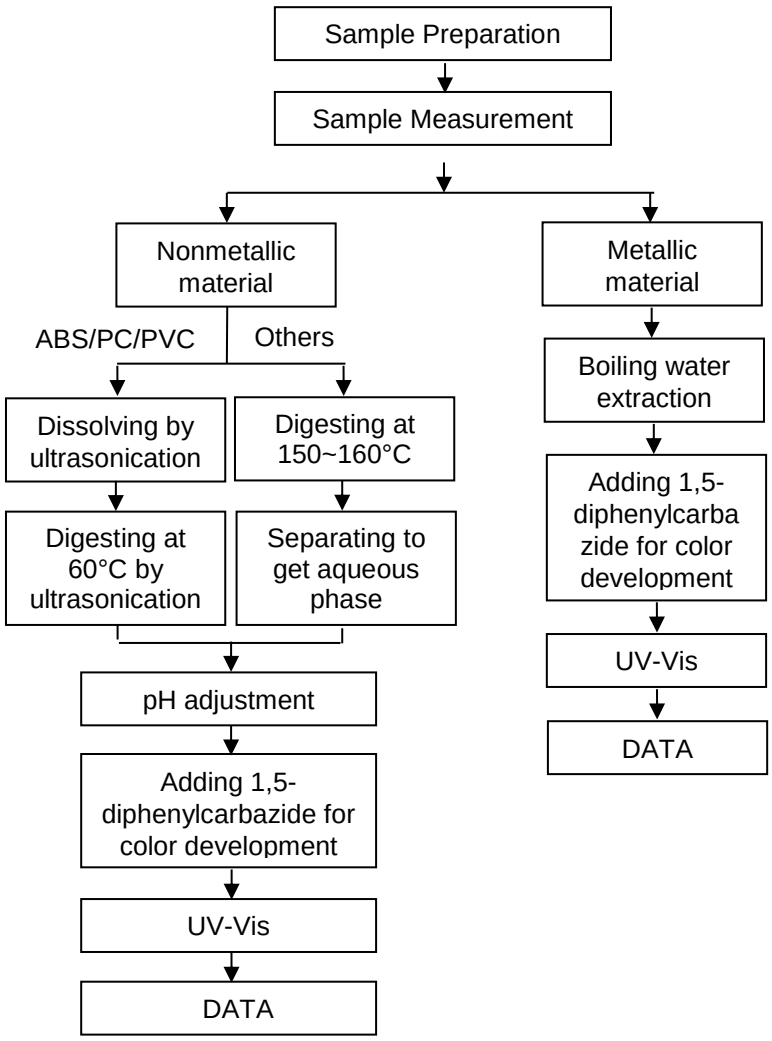
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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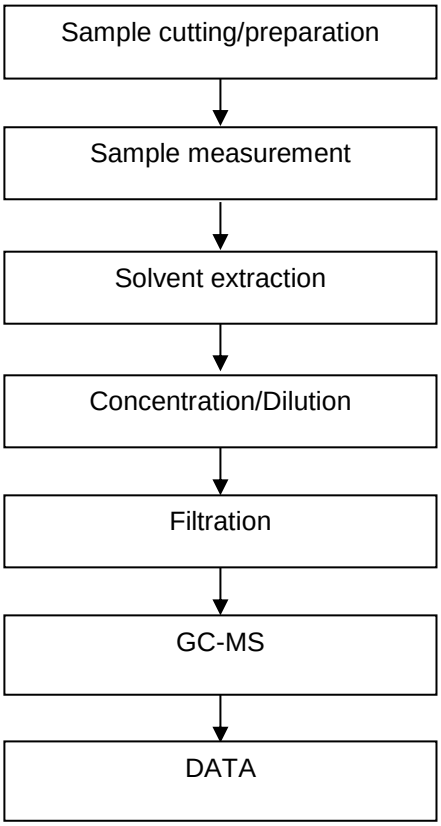
PBB/PBDE/Phthalates Testing Flow Chart



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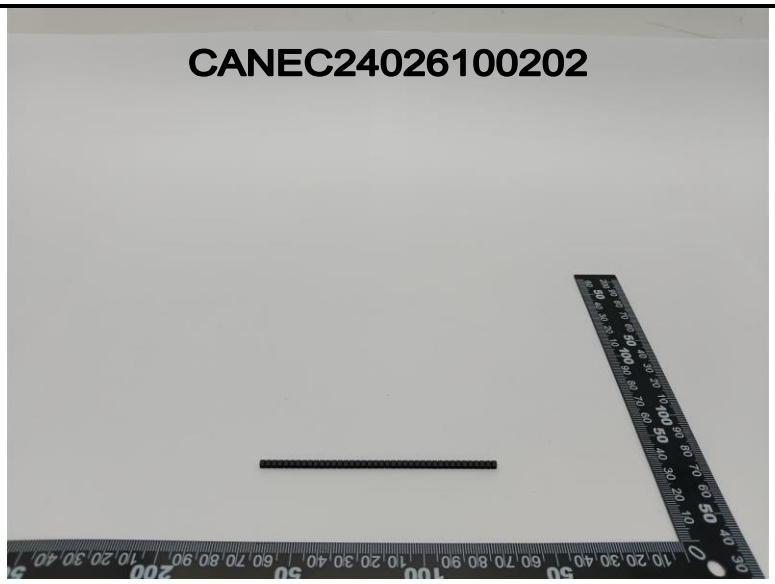
Sample Photo:



CAN24-0261002-0001.C001

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*** End of Report ***

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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

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 μg/cm² (LOQ)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	003	
多溴联苯 Polybrominated Biphenyls (PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	5 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
	003	
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 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
	003	
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 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
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 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	003	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

-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

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

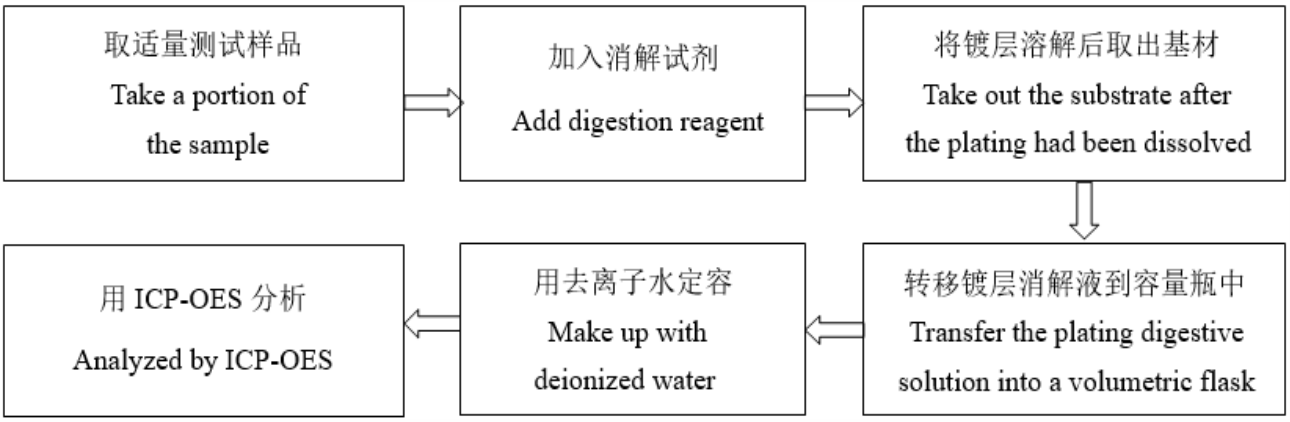
-▼The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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。**

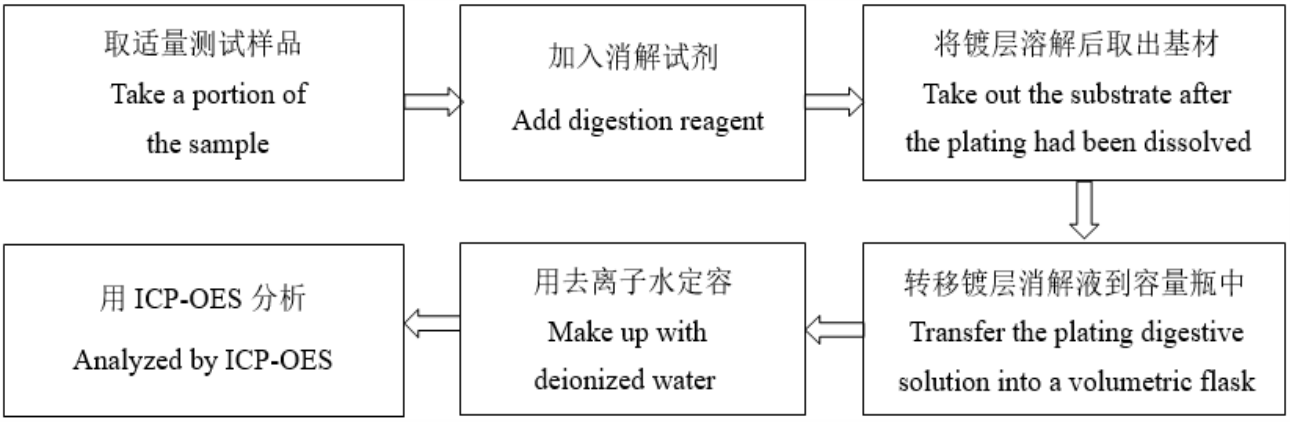
Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

检测流程 Test Process

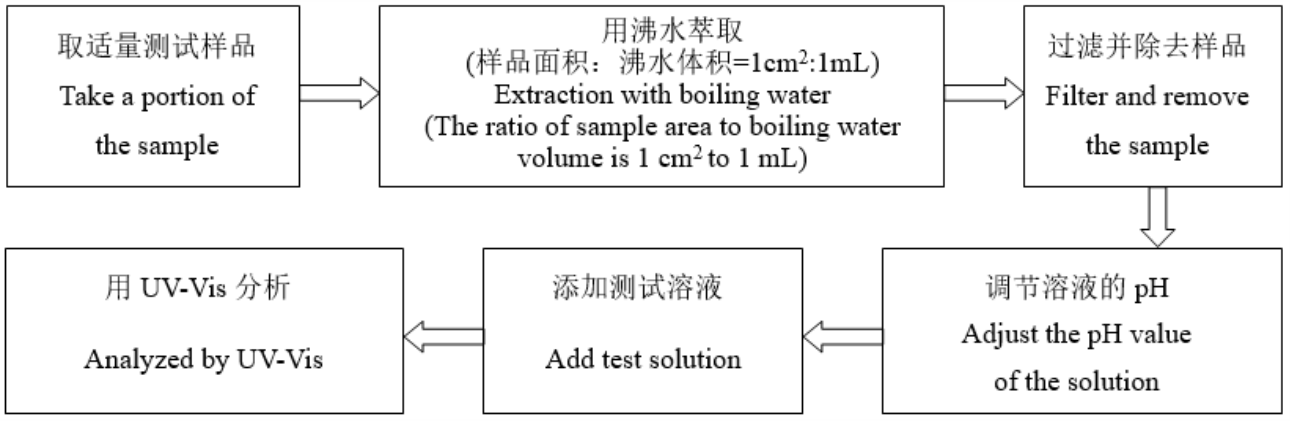
1. 铅(Pb)， 镉(Cd)
   Lead (Pb), Cadmium (Cd)



2. 汞(Hg)
   Mercury (Hg)

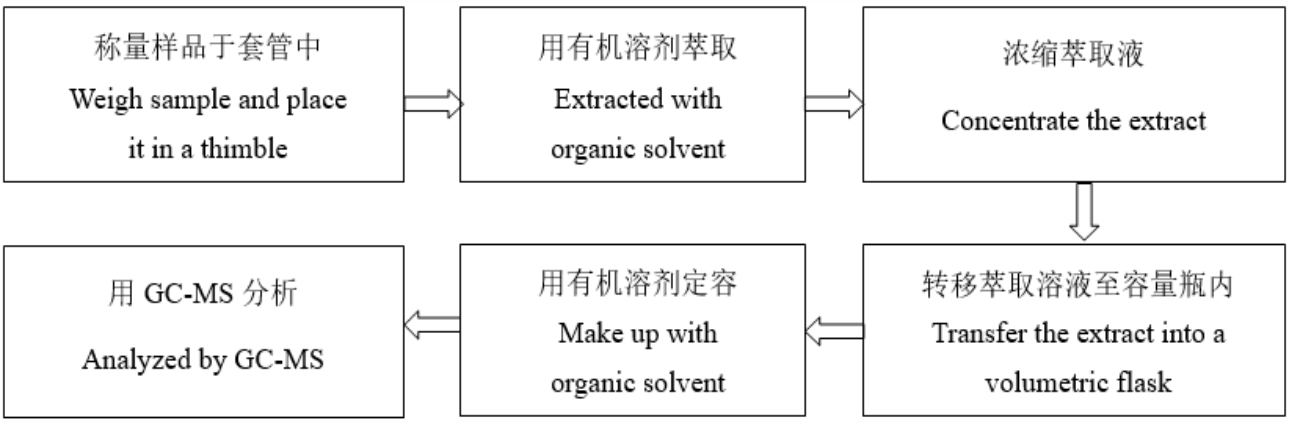


3. 六价铬(Cr(VI))
   Hexavalent Chromium (Cr(VI))



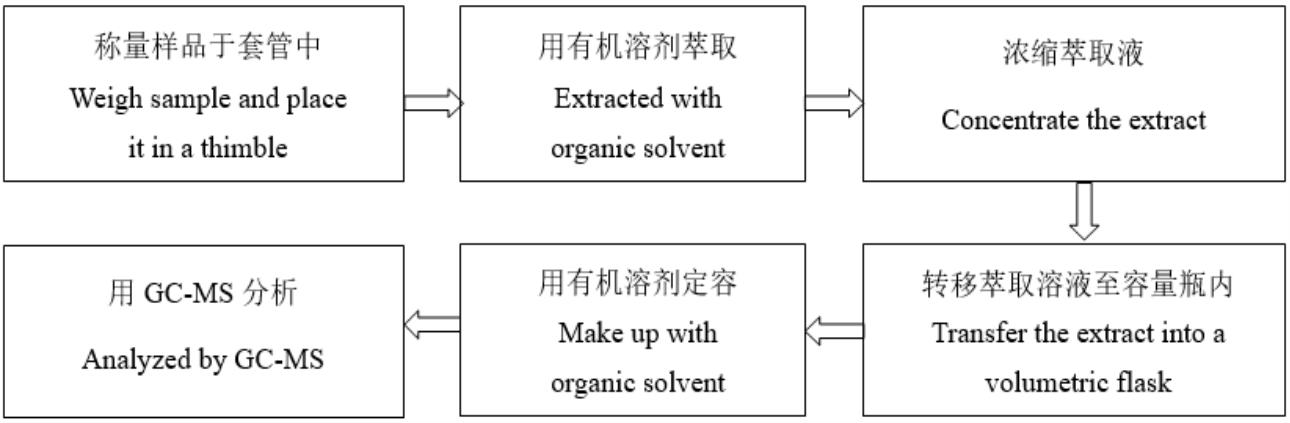
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)

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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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。
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报告结束

*** End of report ***

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 A2240162085101004E
Report No. A2240162085101004E

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 μg/cm² (LOQ)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
多溴联苯 Polybrominated Biphenyls (PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	5 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
	004	
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 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
	004	
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 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
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 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	004	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

-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

-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.

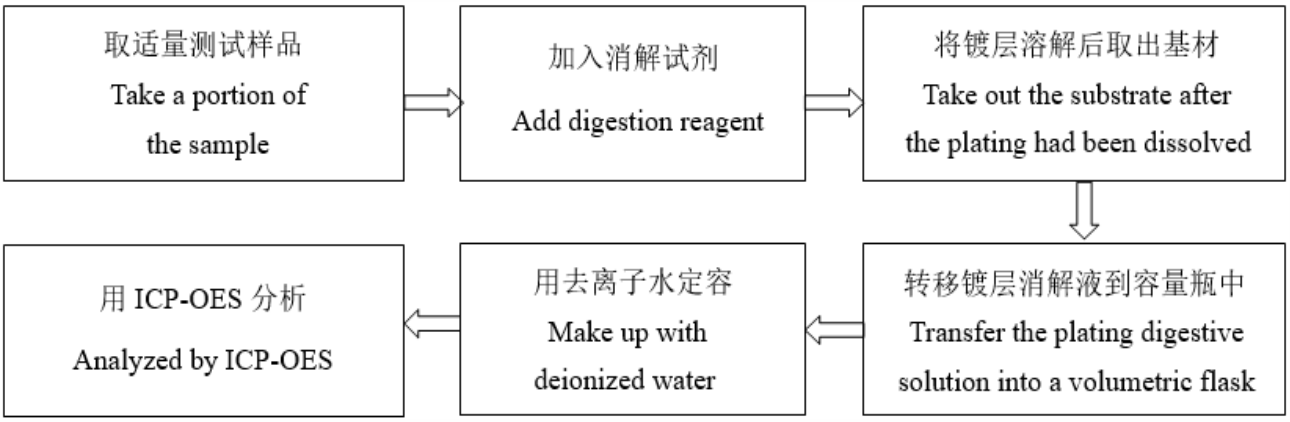
注释: **本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。**

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

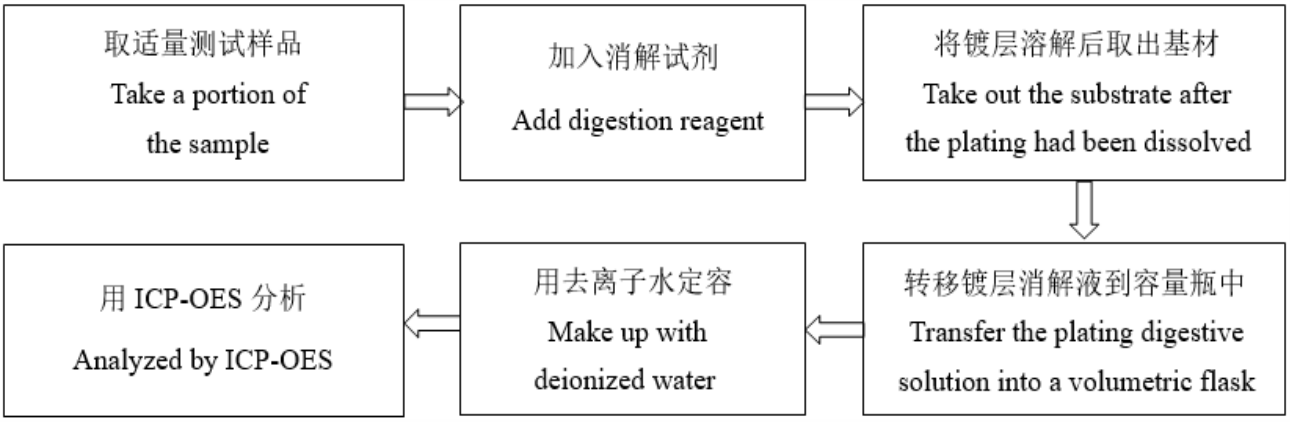
检测报告
Test Report

检测流程 Test Process

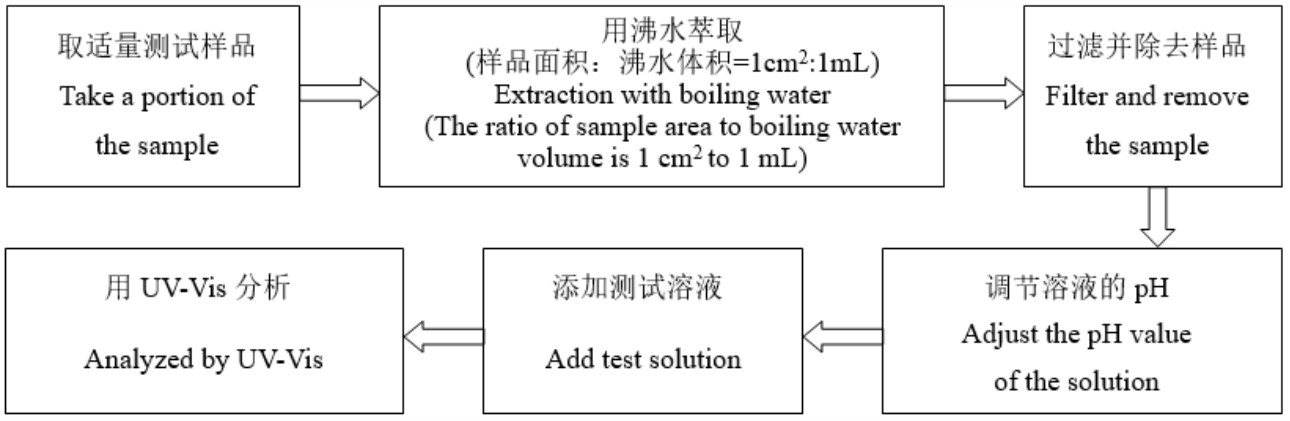
1. 铅(Pb)， 镉(Cd)
   Lead (Pb), Cadmium (Cd)



2. 汞(Hg)
   Mercury (Hg)

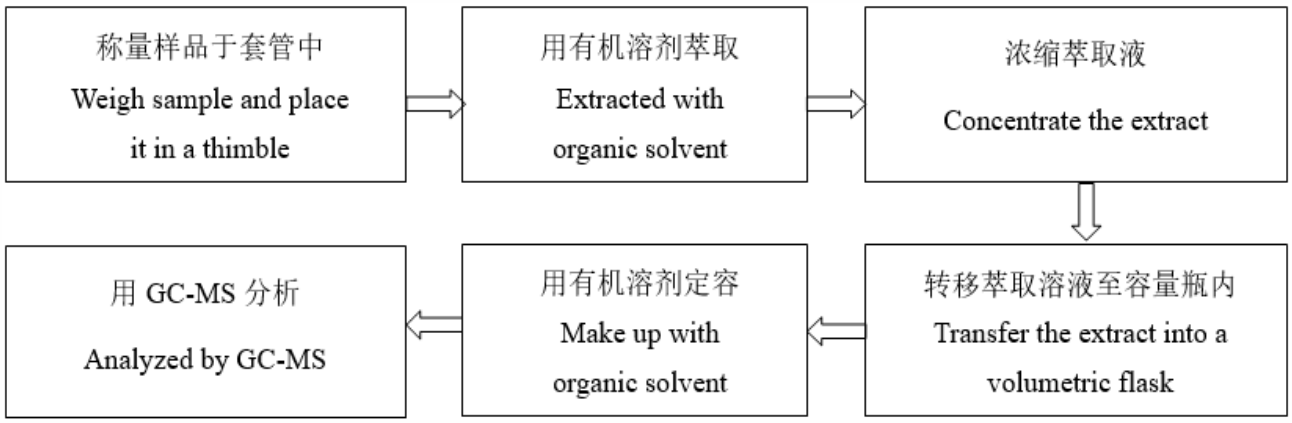


3. 六价铬(Cr(VI))
   Hexavalent Chromium (Cr(VI))



4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)

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



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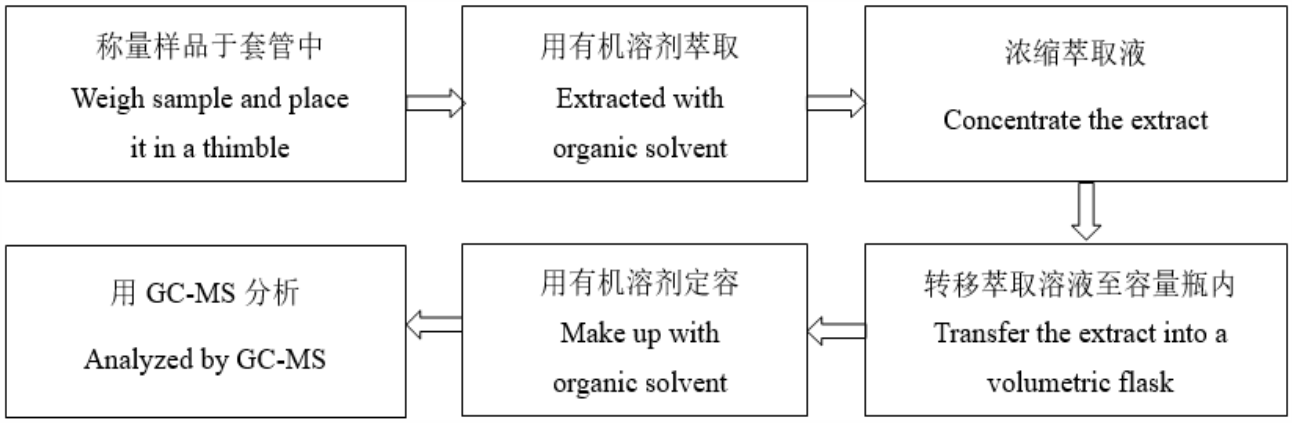
Phthalates (DBP, BBP, DEHP, DIBP)



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Test Report

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Photo(s) of the sample(s)



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报告结束

*** End of report ***

物质安全资料表

一、物品与厂商资料

物品名称：**聚酰胺（PA6T）**
物品编号：RA230NK
制造商或供货商名称： 深圳市宝时达塑胶制品有限公司 制造商或供货商地址： 深圳市宝安区松岗镇江边工业区创业一路 4-3 号
咨询者姓名：胡先生 联络电话：0755-27428839 传真：0755-22700996

二、成分辨识资料

1	化学品名称	CAS 号	含量
2	PA6T 树脂	25587-80-8	49%
3	玻璃纤维	65997-17-3	30%
4	助剂	N.A	3%
5	阻燃剂	917-23-7	18%

三、危害辨识数据

最重要危害效应	进入人体之途径：☐吞食 ☐皮肤接触 ☐吸入 健康危害效应：急性：无 慢性：无 健康危害效应 • 眼睛：没有有效数据。 • 皮肤：熔融时接触会烫伤。 • 吸入：料粒不大可能吸入。 • 食入：没有显著有害效应。

四、急救措施

不同暴露途径之急救方法：

吸　　入：若吸入熔融树脂产生的气体较多时，若需立刻送医治疗。
皮肤接触：若接触到熔胶，用清水冲洗，若有不适，立刻送医治疗。
眼睛接触：若眼睛接触到塑胶粉末，用水冲洗十五分钟以上如需要，到医院治疗。
食　　入：催吐，以清水漱口。

五、灭火措施

灭火材料:水、泡沫、干粉
灭火时可能遭遇之特殊危害：无。 特殊灭火程序：移除可燃物。 灭火者访护：消防人员使用供氧式呼吸防护具。

六、泄漏处理方法

注意事项 ：若塑料粒或塑料粉末残留于地面上，立即清扫处理，以防人员滑倒。
清理方法：回收或弃置（依当地环保单位废弃物管理办法，在合法的弃置掩埋）。

七、安全处置与储存方法

处置：工作场所有《严禁烟火》标志，不能燃烧。
储存： 封包存放在阴凉处所，避免直射阳光及雨淋，储存处严禁烟火。

八、暴露预防措施

容许湿度：（TLV）未定 通风设备：排除粉，烟及气体时使用。 个人防护： 眼部：使用安全眼镜或护目镜。 呼吸：使用含有中、低有机蒸气滤罐之面具。 手部：接触熔胶时使用皮手套。 防护衣服设备：1.安全鞋.2.工作区须有紧急冲淋器。 个人卫生: 1.工作后速脱掉污染衣物,且须告知洗衣人员污染危害性。2.工作场所严禁吸烟或饮食。3.处理本物质后须及时洗手。4.维持作业场所清洁。

九、物理及化学性质

刺激性：分解后之塑料所产生的烟及蒸气会刺激眼睛。

十、安定性及反应性

安定性 ：安定
特殊状况下可能之危害反应：会发生放热的聚合反应。避免接触热、光、空气、治疗剂，密闭容器可能会爆裂。
应避免之状况：避免热、火种及着火物质。若曝露于热源，容器可能破裂或爆破。
应避免之物质：金属盐、可燃物质、金属、氧化剂、卤素、金属氧化物。
危害分解物 ： 碳氧化合物之有毒或有害之气体 。

十一、毒性资料

急毒性：

- 吸入：用火燃烧产生气体会引起呼吸道之刺激与咳嗽。曝露在高浓度的气体时会导致反胃、刺痛、与口腔和喉咙干燥，困倦、头痛、眩晕、失去知觉、呼吸麻痹与死亡，另外也会窒息。
- 食入：不大可能食入，但会造成口腔与喉咙的创伤。
- 皮肤：会引起瘙痒。
- 眼睛：燃烧产生的气体会引起刺激。

局部效应：没有有效数据。

致敏感性： 没有有效数据。

慢毒性或长期毒性：

- 食入：没有有效数据。
- 吸入：没有有效数据。
- 皮肤：没有有效数据。
- 眼睛：没有有效数据。

十二、生态资料

为防止被海洋生物及鸟类取食,严禁丢弃海洋或水域。

十三、废弃物处理及处置

1. 参考相关法规处理。
2. 依照仓储条件储存待处理的废弃物。
3. 可采用特定的焚化或卫生掩埋法处理。

十四、运送资料

未分类

十五、适用法规

标示：
危害警告讯息：难燃。
危害防范措施：
1．置于阴凉且通风良好处。
2．远离火源。
3．配戴护目镜/防毒面具。
4．使用化学干粉，泡沫及水雾。
使用法规：
劳工安全卫生设备规则　　危险物与有害物能通识规则
道路交通安全规则　　事业废弃物储存清除处理方法及措施标准
防护衣服设备：1.安全鞋.2.工作区须有紧急冲淋器。
个人卫生: 1.工作后速脱掉污染衣物,且须告知洗衣人员污染危害性。2.工作场所严禁吸烟或饮食。3.处理本物质后须及时洗手。4.维持作业场所清洁。

十六、其它数据

制窗体位	名称： 深圳市宝时达塑胶制品有限公司
	地址：深圳市宝安区松岗镇江边工业区创业一路 4-3 号 电话：0755-27428839
制 表 人	胡先生
制表日期	2016 年 1 月 30 日

深圳凯悦通电子有限公司

物资安全资料表

MSDS C2680

深圳凯悦通电子有限公司黄铜线物质安全资料表编号：	MCL003
版次：	1
编制日期：	2014-12-3

1、物品与厂商资料

物品名称：	黄铜线		
物品牌号：	H65(C2680)		
化学名称：	Cu-Zn金属合金		
类别：	金属混合物		
制造商或供应商名称：	深圳凯悦通电子有限公司		
制造商或供应商地址：	深圳市宝安区观兰镇大水坑塘前市场樟阁路72号2楼		
制造商或供应商电话：	86-0755-28057209	传真	86-0755-28057485
制造商或供应商网址：	www.daiyuew.com		

2、成份辨订资料：

成分	化学式	含量（%）	化学文摘社登记号码（CAS.NO.）
铜	Cu	63.5-67.5	7440-50-8
铅	Pb	0.005	7439-92-1
铁	Fe	0.1	7439-89-6
锌	ZN	余量	7440-66-6
镍	Ni	0.5	7440-02-0

备注：本产品在固体时不具危险性，其粉尘及烟雾时具有危险性。

深圳凯悦通电子有限公司

3、危险辨认资料

警告：
长时间暴露与粉尘及烟雾的工作环境下，对眼睛、呼吸系统、皮层会造成刺激份害，必须佩带保护器具，包括护目镜、适当衣物、必要保护全身，被接触之部位，必须彻底请洗干净。

种类的名称：	铜、锡之混合物
危险标示类别：	金属粉尘或烟雾将对皮肤、眼睛造成刺激性且对肺具有毒性，但金属成品本身不具有危险性。
危险级数（粉尘及烟雾）：	健康：1可燃：0（0为最低、4为最高）

急救措施

对于粉尘及烟雾危害：

眼睛接触：	以大量清净水冲洗上下眼皮内部（至少15分钟），若眼睛被刺激不适者，立即送医检查。
食入时：	大量喝水并催吐，迅速送医检查。
皮肤接触：	以清水清洗干净。
吸入时：	送至通风良好较阴凉处休息，以毛布保暖，严重者迅速送医院检查诊断。

5、火灾及爆炸危害资料：

可燃性资料：

爆炸性：	无
可燃性：	无
燃烧性：	无
闪火性：	不适用
自燃性：	不适用

灭火剂：

灭火方式：使用灭火剂于材料表面即可

消防建军议：

注意粉尘可能会导致爆炸或产生可燃烧气体

6、取用及储运方式

扎延产品之端面易扎伤皮肤应小心取用。 需注意产品有翻倒时有造成压伤之危险。

储存条件

仓储最高容许温镀：无 避免放置于潮湿或酸/咸性物质或酸/咸性气体之场所。

7、人员曝露防护措施

		OSHA（PEL）		ACGLH（TLV）	
Cu曝露标准：		ppm	mg/m^3	ppm	mg/m^3
	烟雾	无	无	无	无
	粉尘	无	0.005	无	0.01
P曝露标准：		OSHA（PEL）		ACGLH（TLV）	
		ppm	mg/m^3	ppm	mg/m^3
	粉尘	无	0.005	无	0.005
呼吸防护：	长时间曝露于粉尘的工作环境下，需要呼吸防护器具。配戴NIOSH订证防尘口罩。				
通风防护：	工作场所中，若是会产生粉尘时，必须要有通风设备，且工作中不可饮食及抽烟。				
人员防护：	作业时应穿适当之工作服及安全鞋。				

8、物理及化学性质：

外观：	浅黄色光泽的固镀金属
熔点；	1000-1075℃
沸点；	无资料
比重：	8.84
蒸气压：	不适用
溶解度：	不适用
PH值25℃：	不适用

深圳凯悦通电子有限公司

9安定性及反应性资料

非活性物质

10毒性资料

来源途径

粉尘：食入、皮肤接触、吸入、眼睛接触 本产品的成品不具毒性

动物毒性：本合金产品不具毒性
其单成份之毒性说明如下供参考 皮肤腐蚀性：无此资料 刺激性：（皮肤、眼睛）：铜产品会产生接触性皮肤炎 急性毒性：铜的粉末经口食入，会有急性中毒症状：呕吐、无力感及胃疼，粉尘吸多，会有胸痛，发烧等症状。 慢性毒性或长期毒性：粉尘会让原有气喘、肺气肿之病情加重

11生态资料

本产品的成品对生态不具毒性

分解性：无资料 蓄积性：无资料 突变性：本产品没有资料显示会造成突变性 鱼毒性：水中的铜浓度，在0.015-3.0mg/1,尤其在软水中，会有报告会对许多种类的鱼，甲壳类的动物及软体动物，浮游生物具有毒性

12废弃处理

本产品不属于危害性废弃物，须丢弃时可以委托回收商予以回收再生处理

13运输资料

运送时本产品不要直接与水接触，并且要注意会有滑落、翻落的危险发生

14法规资料

通常无特定法令规定，但是在会产生粉尘的场所必须尊守劳工安全卫生法劳工作业环境空气有害物质容许浓度标准
USA/OHSA：Occupational Safety & Health Administration
USA/ACCIH Guide to protective Clothing Cincinnati,OH; American Conference of Government Industrial Hygienists,1987
USA/SARA313

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15. 其他资料

本MSDS内容资料应被所有使用、运送、储存或曝露于本产品之公司/人员充份了解与接受并将其应用于使用、加工、制造或管理与本产品有关之作业规定上。本MSDS资料内容在编订时已尽可能将最新之资料纳入，但对所有内容并不予以任何保证。

检测报告

编号：SHAEC24000724302　　**日期：**2024 年 01 月 15 日　　

客户名称：　芜湖楚江合金铜材有限公司
客户地址：　芜湖经济开发区桥北工业区

样品名称：　铜线
型号：　H65
客户参考信息：　H65/CuZn36/C27000/C2680/C2700/C26800
以上样品及信息由客户提供。

SGS 工作编号：　SHP24-001087
样品接收时间：　2024 年 01 月 11 日
检测周期：　2024 年 01 月 11 日 ~ 2024 年 01 月 15 日
检测要求：　根据客户要求检测。
检测方法：　见后续页。
检测结果：　见后续页。

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

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授权签名

胡敏

Dora Hu 胡敏
批准签署人

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通标标准技术服务（上海）有限公司 检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Testing Center-Chemical Laboratory

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检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA24-0007243-0001.C001	金色金属丝

备注：

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

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

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

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	20
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND

检验检测专用章 Inspection & Testing Services
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检测项目	限值	单位	MDL	A1
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于0.13 μg/cm²时，样品为阳性，即含有六价铬；
b. 当六价铬的浓度为ND（低于0.10 μg/cm²）时，样品为阴性，即未检测到六价铬；
c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果。

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

(4) 报告中多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯项目不在我方实验室CNAS认可范围内。

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

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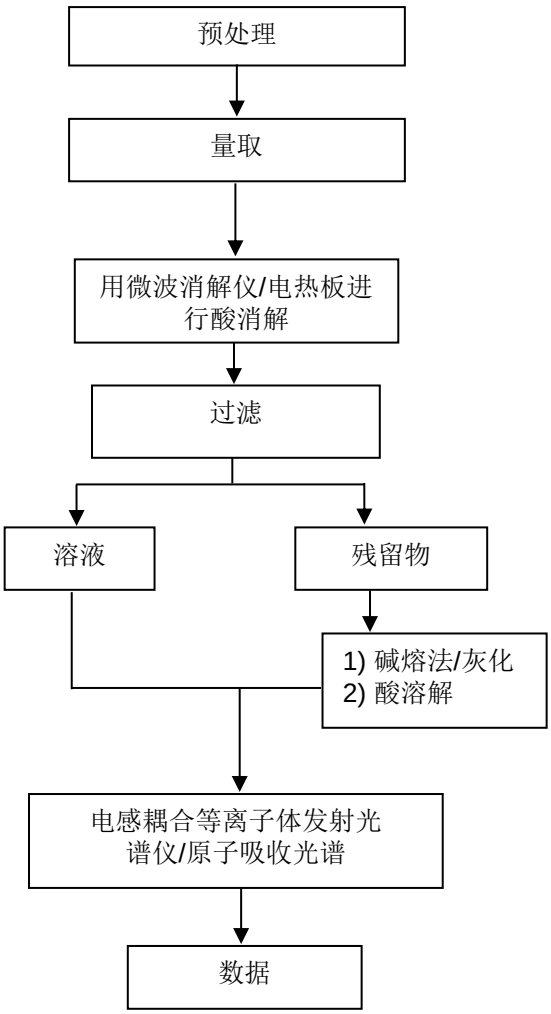
附件

元素检测流程图

样品按照下述流程被完全消解



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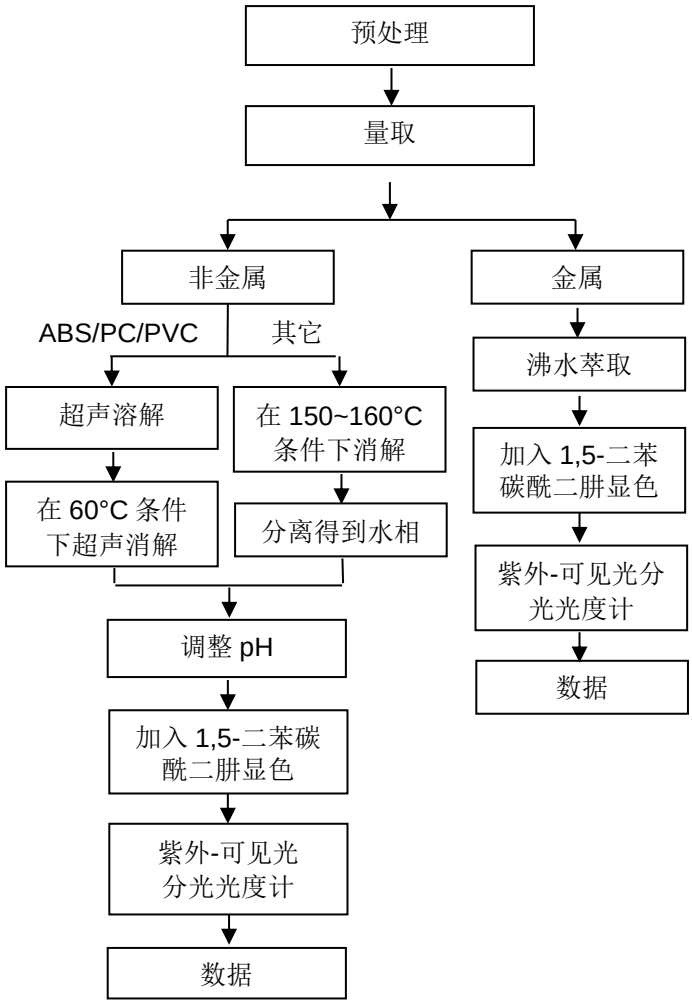
附件

六价铬检测流程图



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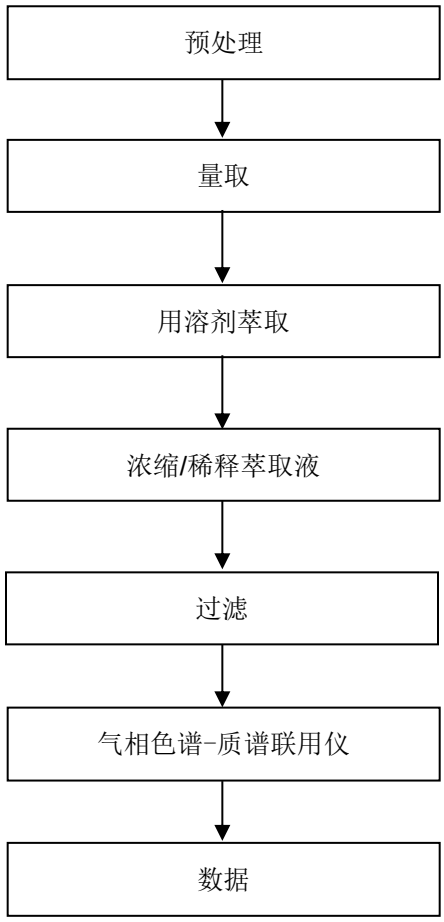
PBBs/PBDEs 检测流程图



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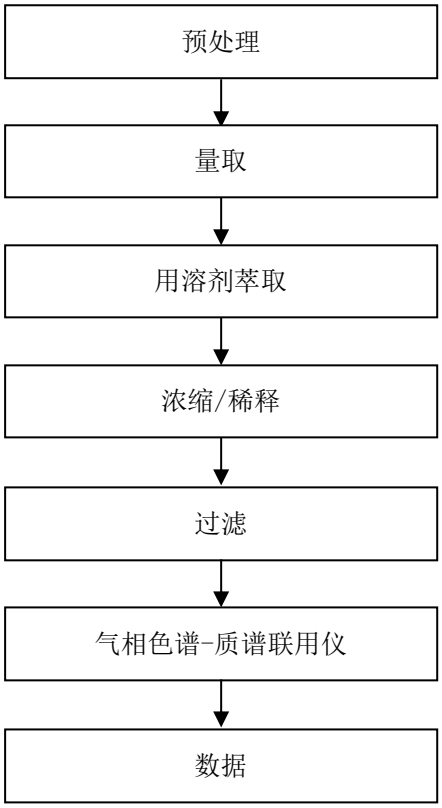
Phthalates 检测流程图



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样品照片：



SHA24-0007243-0001.C001

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物质安全资料表

一．物质与制造商资料

物品中（英）文名称：酸性金电镀液(导电盐,平衡盐,钴光泽剂,377 金添加剂)
制造商或供货商名称：东莞市展望化工有限公司
制造商或供货商地址：东莞市虎门镇路东区新围村 1 巷 5 号
制造商或供货商电话：（0769）85105934　　传真：（0769）85105964

二．主要成分

主要成分	化学式	含量（%）	化学文摘社登记号 CAS.NO
硫酸钴	$CoSO_4$	6%	10026-24-1
柠檬酸钾	$C_6H_5K_3O_7$	20%	866-84-2
柠檬酸	$C_6H_8O_7$	9%	77-92-9
氢氧化钾	KOH	5%	1310-58-3
纯净水	H_2O	60%	7732-18-5

三．健康危害

侵入途径：吸入、食入
健康危害效应：吸入后对鼻、喉和肺有刺激性，引起咳嗽、气短和哮喘等；重者发生喉头水肿、肺水肿及心、肝、肾损害。溅入眼内可造成灼伤。皮肤接触可致灼伤。口服灼伤消化道。
慢性影响：反复低浓度接触，可引起支气管炎；可致皮炎。

四．急救措施

皮肤接触：立即脱去被污染的衣着，用大量流动清水冲洗，至少 15min。就医。
眼睛接触：立即提起眼睑，用大量流动清水清洗或生理盐水彻底冲洗至少 15min。就医。
吸入：迅速脱离现场至空气新鲜处。保持呼吸道通畅。如呼吸困难，给输氧。如呼吸停止，立即进行人工呼吸，就医。
食入：误服者用水漱口，给饮牛奶或蛋清，就医。

五．火灾及爆炸危害资料

燃烧性：不燃　　闪点（℃）：
爆炸上限（%）：无意义　　爆炸下限（%）：无意义
危害特性：易分解放出氨气，温度越高，分解速度越快，可形成爆炸性气氛。
灭火方法：灭火剂：水、雾状水、砂土。

六．泄露之紧急应变

迅速撤离泄漏污染区人员至安全区，并进行隔离，严格限制出入。建议应急处理人员戴自给正压式呼吸器，穿防酸碱工作服。不要直接接触泄漏物。尽可能切断泄漏源，防止进入下水道、排洪沟等限制性空间。小量泄漏：用砂土、蛭石或其它惰性材料吸收。也可以用大量水冲洗，洗水稀释后放入废水系统。大量泄漏：构筑围堤或挖坑收容；用泵转移至槽车或专用收集器内,回收或运至废物处理场所处置。

七．处理与储存注意事项

储存于阴凉、干燥、通风良好的仓间。远离火种、热源，防止阳光直射。保持容器密封。应与酸类、金属粉末等　分开存放。露天贮罐夏季要有降温措施。分装和搬运作业要注意个人防护。搬运时要轻装轻卸，防止包装及容器损坏。运输按规定路线行驶，勿在居民区和人口稠密区停留。

保质期：1~3 年

八．暴露预防措施

工程控制：严加密闭，提供充分的局部排风和全面通风。提供安全淋浴和洗眼设备。
呼吸系统：可能接触蒸气时，应佩戴导管式防毒面具或直接式防毒面具（半面罩）。
手部：佩戴橡胶手套
眼睛：戴化学安全防护眼镜
身体：穿防酸碱工作服
其它：工作现场禁止吸烟、进食和饮水。工作毕，淋浴更衣。保持良好的卫生习惯。

九．物理及化学物性

物质状态：液体　　相对密度（水=1）：1.00-1.10
颜色：　桃红色　　PH 值：3.0-6.0
水溶性：溶于水

十．稳定性和反应特性

稳定性：稳定
聚合危害：不聚合
禁忌物：酸类、铝、铜

十一．毒性资料

容许浓度			LD50	LC50
八小时日时量平均容许浓度 TWA	段时间时量平均容许浓度 STEL	最高容许浓度 CEILING	测试动物吸收途径	测试动物吸收途径
NA	NA	NA		

十二．环境生态资料

由于呈碱性，该物质对环境有危害，对鱼类和哺乳动物应给予特别注意。

十三．废弃处理与处置

处置前应参阅国家和地方有关法规。中和、稀释后，排入下水道。

十四．运送资料

联合国编号：2672
危害性分类：
所需图式种类（Hazard labels）：
包装：5L、100ml/瓶

十五．适用法规

化学危险物品安全管理条例,化学危险物品安全管理条例实施细则,工作场所安全使用化学品规定等法规

十六．其它资料

参考文献：
1.Aldrich Sigma RDH Fluka MSDS 英文版
2.Mallinckrodt Baker MSDS 英文版
3.危险化学品安全技术全书 MSDS
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制表人：邓勇刚

物质安全资料表

一.物质安全资料

物品中(英)文名称： 氨基磺酸镍镀液(氨基磺酸镍,镍柔软剂,镍光泽剂)
制造商或供货商名称：东莞市展望化工有限公司
制造商或供货商地址：东莞市虎门镇路东区新围村 1 巷 5 号
邮编：523900 E-mail:jx111@163.com
制造商或供货商电话：(0769)85105934 传真：(0769)85105964
技术说明编码：GT047-2003

二.主要成分

成分	化学式	含量(%)	化学文摘社登记号码 CAS.NO
氨基磺酸	HNH_3SO_3	10%	226-218-8
糖精	C7H5NO3	2%	81-07-2
十二烷基磺酸钠	C12H25	3%	2386-53-0
氨基磺酸镍	$Ni(NH_3SO_3)_2$	60%	13770-89-3
氯化镍	$NiCl_2$	5%	7718-54-9
硼酸	H_3BO_3	5%	10043-35-3
纯净水	H_2O	15%	7732-18-5

三.危害辨认

侵入途径：吸入、食入、经皮吸收
健康危害效应:吸入本品对上呼吸道有刺激作用.皮肤或眼接触有强烈刺激性或造成灼伤.口服灼伤口腔和消化道.

四.急救措施

皮肤：立即脱去被污染的衣着用大量流动清水冲洗,至少 15min.就医。
眼睛：立即提起眼睑，用大量流动清水或生理盐水彻底冲洗至少 15min.就医。
吸入：迅速脱离现场至空气新鲜处。保持呼吸道通畅。如呼吸困难，给输氧。如呼吸停止，立即进行人工呼吸。就医。

五.火灾及爆炸危害资料

燃烧性：不燃 闪火点：无意义
爆炸上限：无意义 爆炸下限：无意义
危险特性：受热分解，放出氮、硫的氧化物等毒性气体。
灭火方法：灭火剂：雾状水、泡沫、二氧化碳、砂土。

六.泄漏之紧急应变

隔离泄漏污染区，限制出入。切断火源。建议应急处理人员戴自给式呼吸器，穿防酸碱工作服。不要直接接触泄漏物。大量泄漏：收集回收或运至废物处理场所处置。

七.处理与储存

储存于阴凉、通风仓间内。远离火种、热源，防止阳光直射。保持容器密封。应与氧化剂、碱类分开存放。分装和搬运作业要注意个人防护。搬运时要轻装轻卸，防止包装及容器损坏
保质期：1－3 年

八.暴露预防措施

工程控制：密闭操作，局部排风。提供安全淋浴和洗眼设备。

呼吸系统：可能接触毒物时，应该佩戴头罩型电动送风过滤式防尘呼吸器。
手部：配戴耐酸碱手套
眼部：呼吸系统防护中已作防护

九.物理及化学物性

物质状态：液体　　密度：（水＝1）1.40-1.70
颜色：深绿　　PH 值：3.0-6.0
气味：无　　水中溶解度：完全溶解

十.反应特性

稳定性：稳定
危害分解性：无
禁忌物：强氧化剂、强碱

十一.毒性资料

容许浓度			LD50	LC50
八小时日时量平均容许浓度 TWA	短时间时量平均容许浓度 STEL	最高容许浓度 CEILING	测试动物吸收途径	测试动物吸收途径
NA	NA	NA	3160mg/kg(大鼠经口)	NA

刺激性：
致畸胎性：

十二.环境生态资料

无

十三.废弃处理与处置

处置前应参阅国家和地方有关法规。废物贮存参见“储运注意事项“。用焚烧法处置。溶于易燃溶剂或与燃料混合后，再焚烧。焚烧炉排出的氮氧化物通过洗涤器除去。

十四.运送资料

联合国编号：UN NO
危害性分类：
所需图式种类（Hazard labels)：
包装：30KG / 桶

十五.适用法规

化学危险物品安全管理条例，化学危险物品安全管理条例实施细则，工作场所安全使用化学品规定等法规。

十六.其它资料

参考文献：
1.Aldrich Sigma RDH Fluka MSDS 英文版
2.Malinckrodt Baker MSDS 英文版
3.危险化学品技术全书　MSDS
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