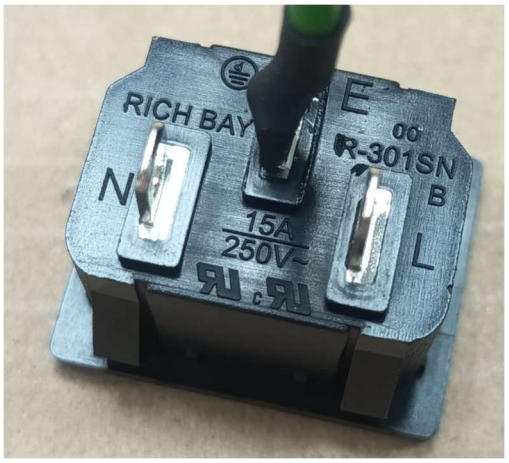






設計驗證
工程課
2026 -01- 13
發行

承　認　書

SPECIFICATION FOR APPROVAL

客　　戶 MESSRS ：鈺緯科技開發股份有限公司

日　　期 DATE ：2025/12/22

品　　名 PART NAME ：AC SOCKET(R-301SN(B298))&GND WIRE,YOMIN,

物料代號 PART NO. ：3KH0007734A(K1041)

設計驗證
工程課
2026 -01- 13
發行
鈺緯科技開發股份有限公司

福盈電子有限公司

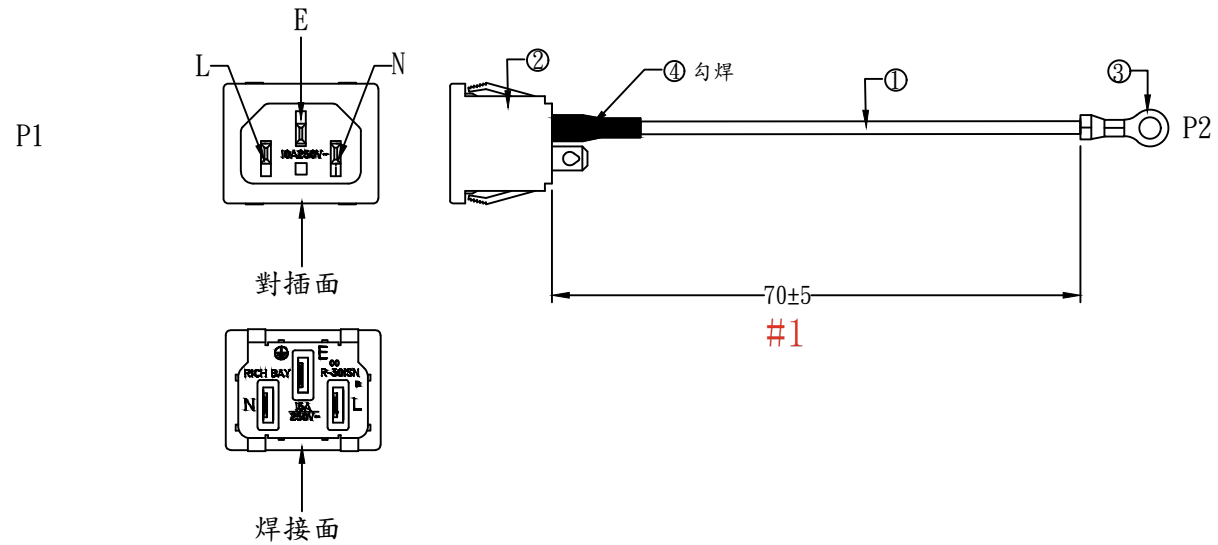
東莞塘廈福盈電子廠

總公司：台北市內湖區成功路四段 223 巷 15 弄 8 號

TEL：(02) 2790-7366　　FAX：(02) 2793-1393

中國廠：東莞市塘廈鎮宏業北十三路 188 號 B 棟 4F

TEL：(0769) 8791-0131~2　　FAX：(0769) 8791-0130



配線表:

P1	顏色	P2
E	黃/綠	TER
其他:NC		

NOTE:1.P1端焊接處,線材需脫皮10mmREF,捻線后全鍍錫并折彎（見圖示).
2.線材需穿好套管,用橡皮筋扎好.

項目	材料名稱	用量
1	WIRE:UL1015#18 -LF- (REI HSING) 顏色:黃/綠	L=79mm 1PCS
2	電源插座:富灣 R-301SN(B298) 臺北購買	1PCS
3	TERMINAL:WST-B40405BS-2 限用	1PCS
4	HEAT SHRINK TUBE:BLACK 5.0Φ L=15±2mm 厚	1PCS

折彎圖示: 注意折彎方向



項目	變更內容	日 期
3		
2		
1		

設計驗證 工程課 2026-01-13 發行

制 作	審 核	核 准	比 例		客戶名稱:
余加民	余加民	王子豪	單 位	mm	鈺緯科技開發股份有限公司
福盈電子有限公司 FUW YNG ELECTRONICS CO.,LTD			版本/版次	A0	機種:
			頁 次	1/1	料號: 3KH0007734A(K1041)
			制作日期	2025.11.24	圖紙編號:DI14112401

UL Style 1015
CSA Type TEW

105°C 600V PVC電子線

UL Subject 758
CSA Standard

UL FILE NO: E108485
CSA FILE NO: LL84687

▲說明：

- 導體使用單條或絞線28-9AWG裸銅或鍍錫銅
- PVC絕緣
- 額定溫度：105℃額定電壓：600 Volts
- 使用標準厚度，易剝，截斷容易
- 可通過UL VW-1及CSA FT1，垂直耐燃測試

▲應用：

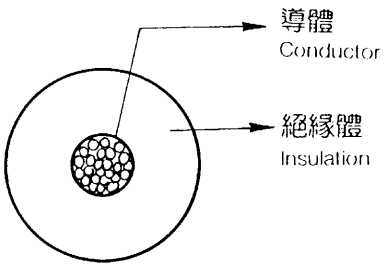
- 用於一般電器產品內部配線。

Product Description:

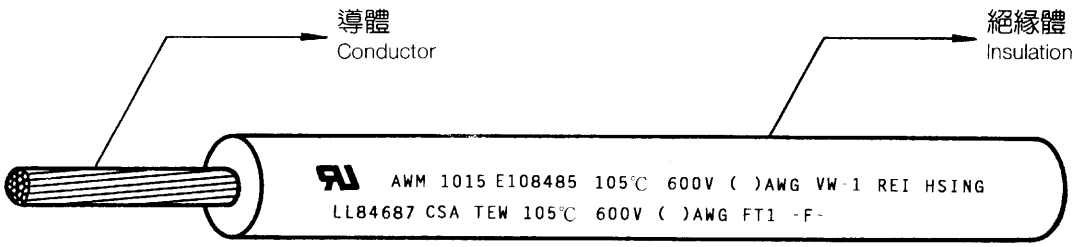
- Solid or stranded, tinned or bare copper conductor, 28-9 AWG
- Color-coded PVC insulation.
- Rated temperature: 105°C. Rated voltage: 600 volts.
- Uniform thickness of wire to ensure easy stripping and cutting.
- Passes UL VW-1 & CSA FT1 vertical flame test.

Applications:

- For internal wiring of appliances.



構造及電氣性能
structure &
electric properties



UL 1015 CSA TEW	額定 Range		導體 Conductor			絕緣體 Insulation		公差值 Tolerance mm	最大導體阻抗 Maximum Conductor Resistance Ω/Km		最小絕緣阻抗 Minimum Insulation Resistance MΩ-Km	絕緣耐電壓(VAC/min.) Insulation Potengial Strengh
	溫度 Temp. ℃	電壓 Voltage V	線號 AWG	構成 No./mm	外徑 O.D. mm	厚度 Thickness mm	外徑 O.D. mm					
多蕊線 Standed	105ºC	600V	26	7/0.16	0.48	0.76	2.00	±0.05	152.0		15	2000
			24	11/0.160	0.64	0.76	2.10	±0.05	88.6			
			22	17/0.160	0.78	0.76	2.25	±0.05	62.5			
			20	21/0.180	0.95	0.76	2.45	±0.05	39.5			
			18	34/0.180	1.21	0.76	2.70	±0.05	24.4			
			16	26/0.254	1.50	0.76	3.00	±0.05	15.6			
			14	41/0.254	1.88	0.76	3.35	±0.05	9.90			
			12	65/0.254	2.36	0.76	3.83	±0.05	6.24			
先絞後鍍 Top-Coated (ATC)			24	7/0.200	0.61	0.76	2.10	±0.05	85.9			
			22	7/0.254	0.76	0.76	2.25	±0.05	54.8			
			20	7/0.320	0.96	0.76	2.45	±0.05	34.1			
單蕊線 Solid (TA)			24	1/0.511	0.51	0.76	2.05	±0.05	92.4			
			22	1/0.643	0.64	0.76	2.20	±0.05	60.1			
			20	1/0.813	0.81	0.76	2.40	±0.05	37.0			
			18	1/1.02	1.02	0.76	2.65	±0.05	23.6			

註：容許電流：係指周圍環境溫度為40℃導體單蕊配線之條件下訂定。

瑞興 瑞興電線電纜制品廠

UL 電子線資格承認卡

AVLV8 May 30, 1997

Component - Appliance Wiring Material Certified For Canada

REI HSING WIRE CO LTD **E108485 (S)**

26 CHANG SAN RD, SEC 3 TAI-SAN HSIANG, TAIPEI HSIEN TAIWAN

TSENG TEN INDUSTRIAL PARK, CHEN-KOU CHANG AN TOWN, DONG GUAN CITY. GUANG DONG CHINA

Appliance Wiring Material, Type AWM Class I or II, Group A, B or both.

Marking: Product name and the Recognized Component Mark for Canada, on the attached tag, the reel or the smallest unit container in which the product is packaged.

See General Information Preceding These Recognitions.

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Report: June 4, 1997.

559504001 **Underwriters Laboratories Inc.®** D1I/0322424 21

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UL 電源線資格承認卡

ZJCZ September 12, 1988

Flexible Cord

REI HSING WIRE CO LTD , TAIPEI HSIEN TAIWAN E98652 (S)

Braidless parallel cords, Types SPT-1, SPT-2.
Miscellaneous and special cords: Refrigerator cord, Type SPT-3.

8 DER AN ST TAI SAN HSIANG

LOOK FOR LISTING MARK ON PRODUCT

Replaces E98652 dated January 21, 1986.

559504001 Underwriters Laboratories Inc.® F1I/0124641

瑞興電線電纜制品廠

CERTIFICATION RECORD

The company named below has been authorized by CSA to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

NUMBR 084687X0000 November 5, 1996(Replaces:July 7, 1995)

CLASS 5851 01 (Label/Licensing Service)

REI HSING WIRE CO. LTD. 84687
No 26, Sec 3, Chung San Rd.
Tai San Hsiang
Taipei Hsien, Taiwan
FACTORIES
F1 REI HSING WIRE CO., LTD.
No 26, Sec 3, Chung San Rd.
Tai San Hsiang
Taipei Hsien, Taiwan
F2 REI HSING WIRE AND CABLE CO.,LTD
Tseng Ten Industrial Park,chen-kou
Chang An Town, Dong Guan City.
Guang Dong,China

WIRES - Appliance

TO THE REQUIREMENTS OF CSA STANDARD C22.2 NO 210.2-M90:

AWM Class	AWM Group	Temp Deg C	Max Volt	Jacket Type Min Avg. Thick (mm)	Coverings Type Min Avg. Thick (mm)	Size Range AWG	Insul. Type Min Avg. Thick (mm)	Note
- SINGLE CONDUCTOR:								
I	A	80	150 300 600	-	-	32-10	PVC/ .25	1,2
I	A	80	300	-	-	32-10	SR-PVC/ .17	1,2
I	A/B	105	600	PVC/ .38	-	32-10	PVC/ .76	1,2, 5
- MULTICONDUCTOR/ROUND:								
I/II	A	80	300	PVC/*	-	32-10	SR-PVC/ .17	1,2, 3
- MULTICONDUCTOR/FLAT:								
I	A/B	80	300	-	-	32-10	PVC/ .38	1,2, 4
I	A/B	80	300	-	-	32-10	PVC/ .38	1,2, 6

Test Report

Report No. A2250341793103006

Company Name shown on Report	REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address	NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

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

Sample Name	GREEN/YELLOW PVC LF INSULATED WIRE
Model No.	UL1015 LF WIRE UL1007, 1015, 1571, 1061, 1028, 1032, 1080, 1095, 1569, 1581, 1674, 1500, 1283, 1285, 1011, 1013, 1497, 1789, 1685, 1617, 1672, 1618, 1010, 1316, 1429, 1430, 1431, 3443, 3610, 2468, 2464, 2444, 20080, 2555, 2476, 2697, 2733, 2562, 2096, 1533, 2547, 20005, 20276, 2854, 2851, 1185, 10070, 10198, SPT, (H)VSF, (H)VFF, (H)VCTF, (H)VCFK, H05V2-U, H05V2-K, AV, AVS, AVSS, CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	May 21, 2025
Testing Period	May 21, 2025 to May 26, 2025

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) 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: Ophelie Wen

Ophelie Wen

Lab Authorized Signatory

Date: May 27, 2025

No. R338852019

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. A2250341793103006

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS

Test Report

Report No. A2250341793103006

Test Result(s)

Tested Item(s)	Result	MDL
	006	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	006	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	25 mg/kg
Dibromobiphenyl	N.D.	25 mg/kg
Tribromobiphenyl	N.D.	25 mg/kg
Tetrabromobiphenyl	N.D.	25 mg/kg
Pentabromobiphenyl	N.D.	25 mg/kg
Hexabromobiphenyl	N.D.	25 mg/kg
Heptabromobiphenyl	N.D.	25 mg/kg
Octabromobiphenyl	N.D.	25 mg/kg
Nonabromobiphenyl	N.D.	25 mg/kg
Decabromobiphenyl	N.D.	25 mg/kg

Tested Item(s)	Result	MDL
	006	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	25 mg/kg
Dibromodiphenyl ether	N.D.	25 mg/kg
Tribromodiphenyl ether	N.D.	25 mg/kg
Tetrabromodiphenyl ether	N.D.	25 mg/kg
Pentabromodiphenyl ether	N.D.	25 mg/kg
Hexabromodiphenyl ether	N.D.	25 mg/kg
Heptabromodiphenyl ether	N.D.	25 mg/kg
Octabromodiphenyl ether	N.D.	25 mg/kg
Nonabromodiphenyl ether	N.D.	25 mg/kg
Decabromodiphenyl ether	N.D.	25 mg/kg

Test Report

Report No. A2250341793103006

Test Result(s)

Tested Item(s)	Result	MDL
	006	
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
	006	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	006	Green/yellow wire jacket

Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-Information Statement: Different Model No. with different buyer.

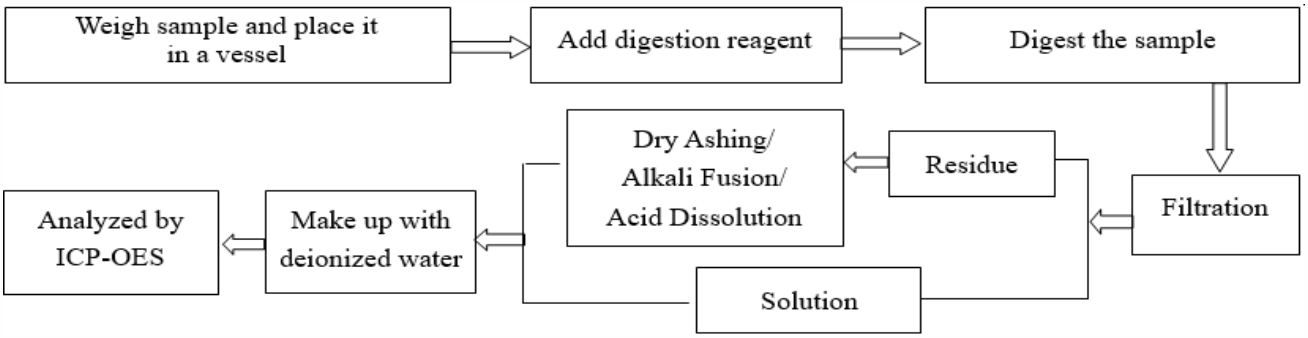
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

Test Report

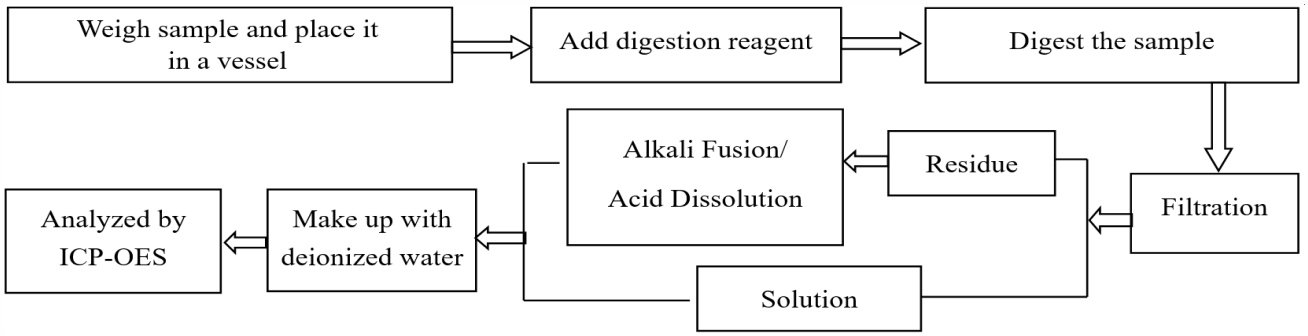
Report No. A2250341793103006

Test Process

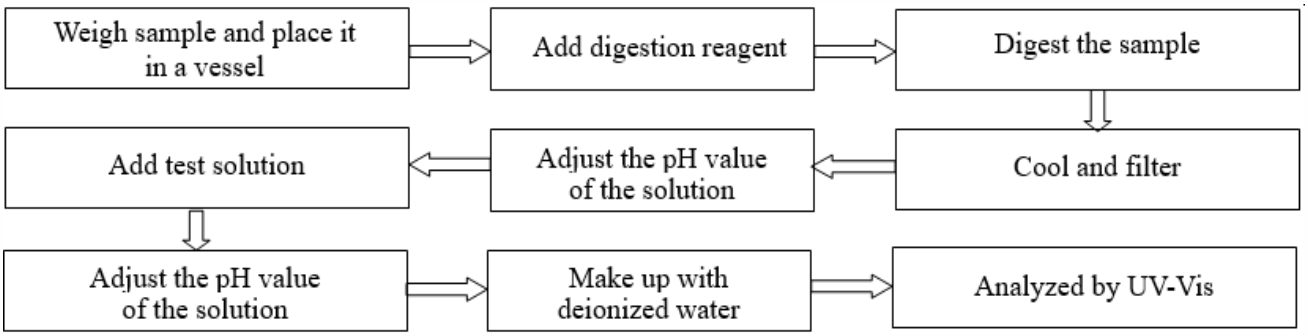
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



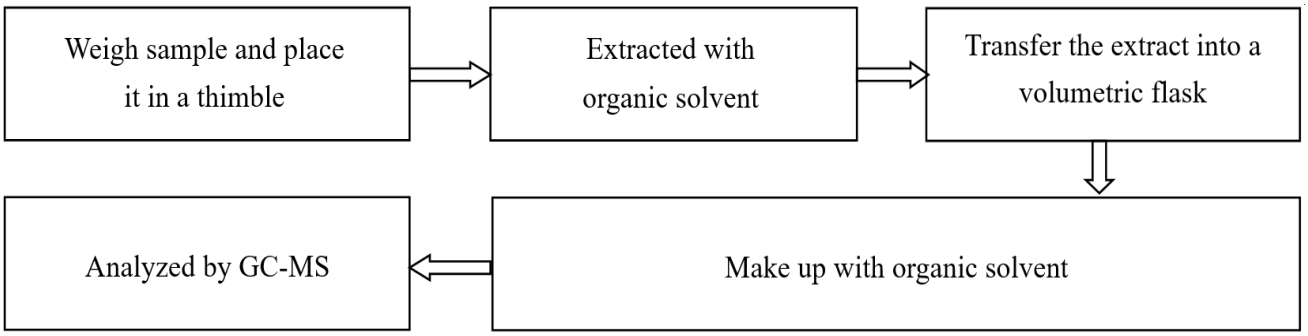
2. Mercury (Hg)



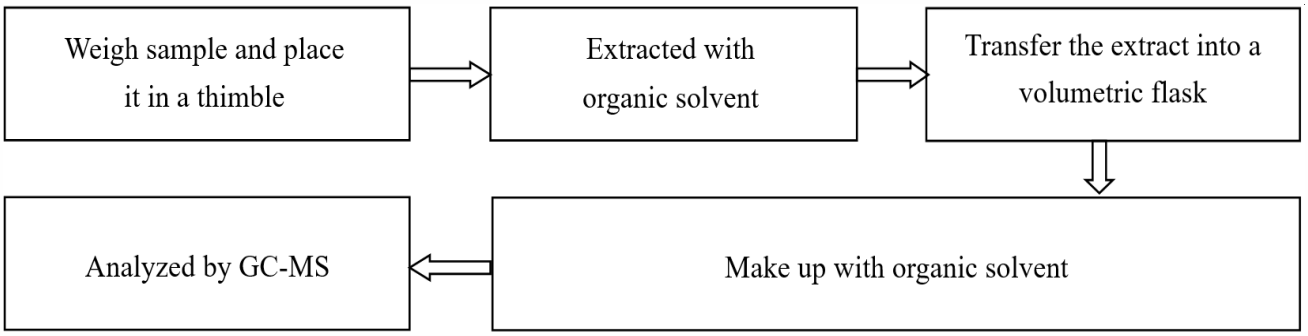
3. Hexavalent Chromium (Cr(VI))



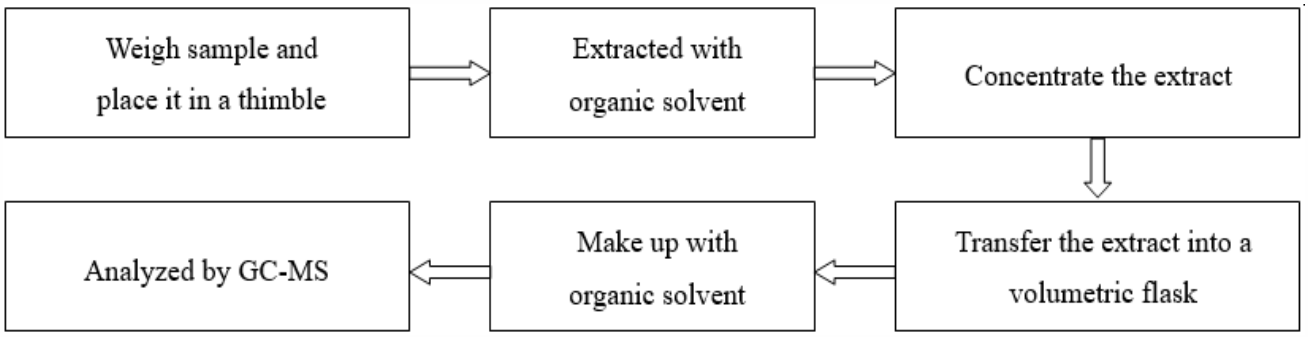
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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

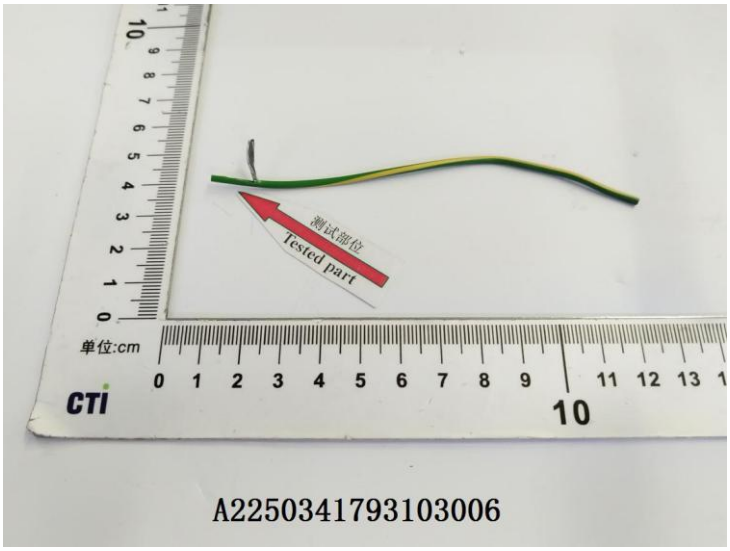


6. Hexabromocyclododecane (HBCDD)



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 testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

No.: CANEC25000722302 **Date:** Jan 15, 2025

Client Name: DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD.

Client Address: QIAO ZI REGION CHANGPING TOWN DONGGUAN CITY GUANGDONG PROVINCE

Sample Name: TINNED COPPER WIRE

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

SGS Job No.: SZP25-001389

Sample Receiving Date: Jan 09, 2025

Testing Period: Jan 09, 2025 ~ Jan 15, 2025

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Element(s)	See Results
Perfluorooctane sulfonic acid (PFOS) and its derivatives	See Results

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
7DF1B45B

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 t (86–20) 82155555 www.sgsgroup.com.cn
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	A2	CAN25-0007223-0001.C002	Silvery plated metal wire

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, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	A2
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) ▼ = 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.

AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND

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Test Item(s)	CAS No.	Unit(s)	MDL	A2
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

Notes:

AfPS（German commission for Product Safety）: PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children[a,b] up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[c] with skin during the intended or foreseeable use[d].		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:
[a] A "Child" is legally defined as a person before reaching the age of 14 years.
[b] Use by children includes both active and passive contact by children.
[c] Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
[d] According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:
The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A2
Beryllium(Be)	mg/kg	5	ND

Perfluorooctane sulfonic acid (PFOS) and its derivatives

Test Method: Modified EN 17681-1:2022, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
PFOS, its salts and related compounds				
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND

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Test Item(s)	CAS No.	Unit(s)	MDL	A2
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	mg/kg	-	ND

Notes:
1. ^=Substances refer to its salts/derivative listed in below table.

Substance Name	**CAS No.**
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-$N(C_2H_5)_3$)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-$N(CH_3)_4$)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0

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1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C_4H_9)$_4$))	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH_4)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$)	76752-82-4

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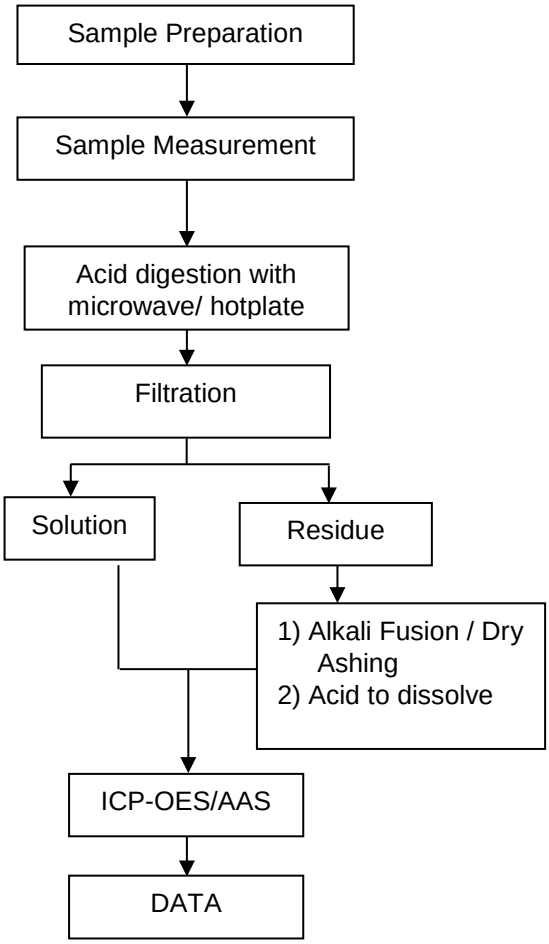
Elements Testing Flow Chart

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



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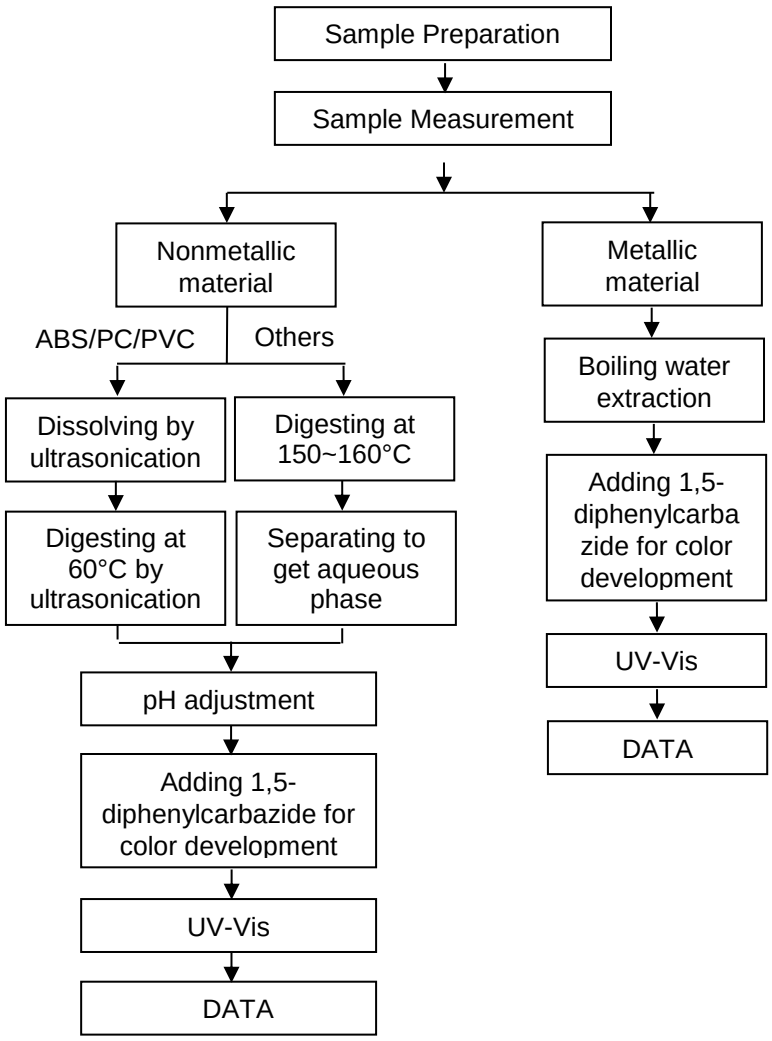
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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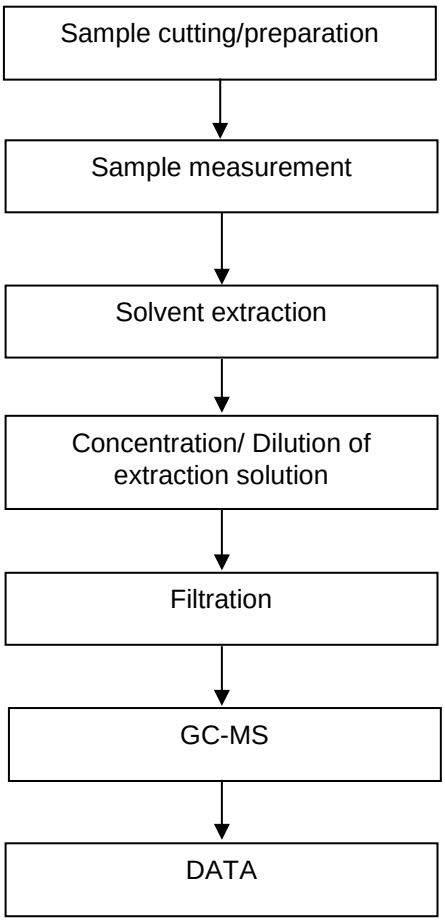
PBB/PBDE Testing Flow Chart



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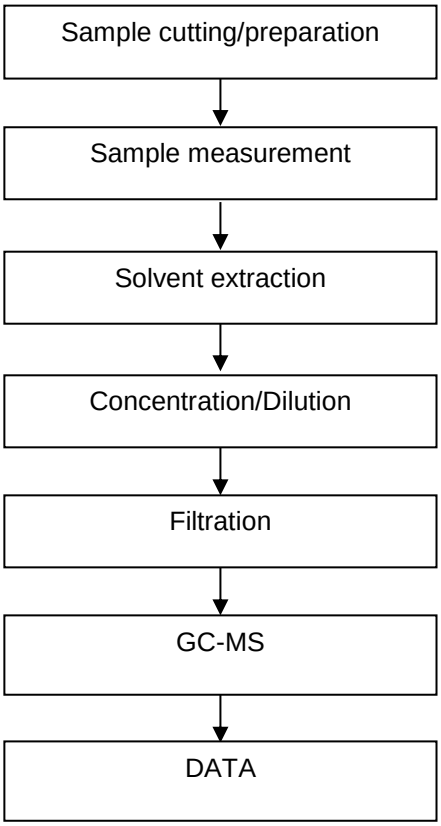
Phthalates Testing Flow Chart



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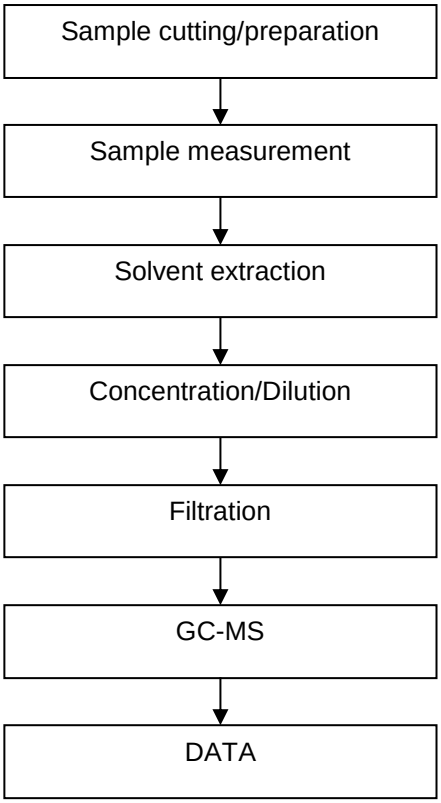
PAHs Testing Flow Chart



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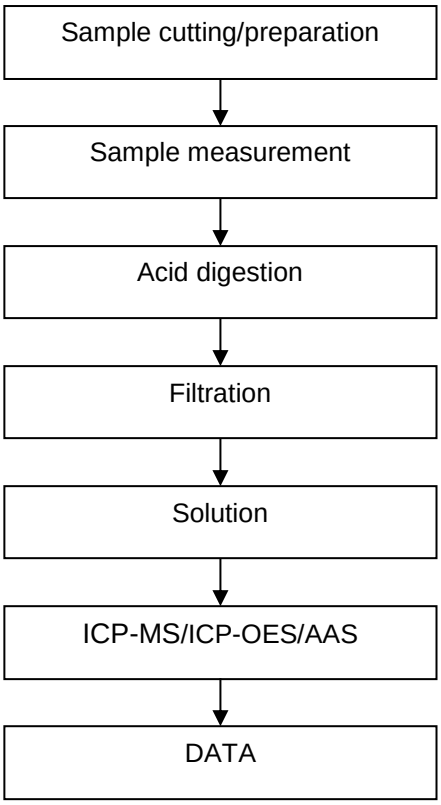
Elements Testing Flow Chart



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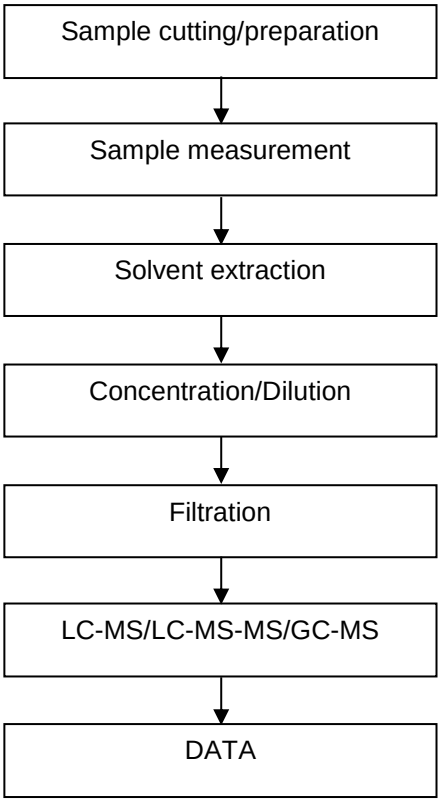
PFASs/ PFOS/PFOA Testing Flow Chart



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Sample Photo:



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TO: 福盈 采購
FM: 瑞兴 品牌

ROHS Compliance Declaration

(REI HSING (DONG GUAN) ELECTRIC WIRE AND CABLE CO., LTD) warrant that all the product supplied to **FUW YNG ELECTRONICS CO.,LTD** comply with the Directive 2015/863/EU of the European Parliament and of the Council of 4 June 2015 on the restriction of the use of certain hazardous substance in electrical and electronic equipment (undersigned RoHS) requirements.

RoHS Directive 2015/863/EU

1. Lead (Pb) <1000ppm
2. Mercury (Hg) <1000ppm
3. Hexavalent Chromium (Cr6+) <1000ppm
4. Cadmium (Cd) <100ppm
5. Polybrominated biphenyls (PBB) <1000ppm
6. Polybrominated diphenyl ethers (PBDE) <1000ppm
7. Bis (2-ethylhexyl) phthalate (DEHP) <1000ppm
8. Butyl benzyl phthalate (BBP) <1000ppm
9. Dibutyl phthalate (DBP) <1000ppm
10. Diisobutyl phthalate (DIBP) <1000ppm

Supplier's company name:
REI HSING (DONG GUAN) ELECTRIC WIRE AND CABLE CO., LTD

Representative:
陈清学

Title:
部 長

Date:
2024-06-17

REACH SVHC Compliance Declaration

REI HSING (DONG GUAN) ELECTRIC WIRE AND CABLE CO., LTD warrant that all the product supplied to **FUW YNG ELECTRONICS CO.,LTD.** directly or from the third party which supplied and sold to customer shall comply do not contain above the 0.1% weight (w/w) threshold of any Substance of Very High Concern (SVHC) in (EC) 1907/2006 (REACH -- Registration, Evaluation, Authorization, and Restriction of Chemicals) regulated by the European Union.

Content of Compliance

240 substances listed in SVHC <0.1 % by weight (1000 ppm)

Supplier's company name:
REI HSING (DONG GUAN) ELECTRIC WIRE AND CABLE CO., LTD

Representative:

Title:

Date:
2024-06-17

To: 福盈 平期
From: 瑞光 品保

福盈電子有限公司

REACH高度關注物質(SVHC)使用聲明

1. 確認商品中是否含有高度關注物質，且其濃度是否超過0.1%。
2. 若商品含有高度關注物質，須在客戶提出要求45天內回覆關於此高度關注物質之相關資訊。
3. 確保產品符合環保及安全之基本要求

These substances are classified as Substances of Very High Concern (SVHC) by the European Chemical Agency (ECHA) due to their hazardous nature. Their properties are characterized as one or more of the followings: Carcinogenic, Mutagenic, toxic for Reproduction (CMR), persistent-bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB)

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	No	Curing agent for epoxy resin in PCB, preparation of PU, azo dyes in garments
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	No	Cosmetics and soap perfumes
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	No	Leather coating, plasticizer in PVC and chlorinated rubber, flame retardant in plastic & textiles
4	Anthracene	120-12-7	No	Source of dyestuff
5	Benzyl butyl phthalate (BBP)	85-68-7	No	Plasticizer for resin, PVC, acrylics
6	Bis (2-ethylhexyl)phthalate(DEHP)	117-81-7	No	Plasticizer for resin, PVC, blister
7	Bis(tributyltin)oxide (TBTO)	56-35-9	No	Pesticide, fungicide in paint
8	Cobalt dichloride	7646-79-9	No	Moisture indicator in silica gel, absorbent
9	Diarsenic pentaoxide	1303-28-2	No	Insecticides, weed killer, wood preservatives, coloured glass, dyeing and printing
10	Diarsenic trioxide	1327-53-3	No	Weed killers, timber preservatives, manufacture of special glass
11	Dibutyl phthalate (DBP)	84-74-2	No	Plasticizer, in adhesives and paper coatings; insect repellent for textiles
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha, Beta, & Gamma	25637-99-4 and 3194-55-7 (134237-51-7, 134237-50-6, 134237-52-8)	No	Flame retardant used in HIPS and textiles
13	Lead hydrogen arsenate	7784-40-9	No	Insectides
14	Sodium dichromate	7789-12-0 and 10588-01-9	No	Chrome-tanning of leather, corrosion inhibitor in paints, mordant in textile dyeing process
15	Triethyl arsenate	15606-95-8	No	Chrome-tanning of leather, corrosion inhibitor in paints, mordant in textile dyeing process
16	Anthracene oil	90640-80-5	No	Paint, preservative oil, insecticide
	Anthracene oil, anthracene paste	90640-81-6	No	Paint, preservative oil, insecticide
	* CE Marking requirement is included in the RoHS2 recast	91995-15-2	No	Paint, preservative oil, insecticide
17	Anthracene oil, anthracene paste,distn. lights	91995-17-4	No	Paint, preservative oil, insecticide
18	Anthracene oil, anthracene-low	90640-82-7	No	Paint, preservative oil, insecticide

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
19	Diisobutyl phthalate (DIBP)	84-69-5	No	Plasticizer
20	2,4-Dinitrotoluene	121-14-2	No	Manufature of explosives, polyurethane plastics, organic synthesis, dyes
21	Lead chromate	7758-97-6	No	Used as colorant in painting, printing inks, rubber and plastic
22	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	No	Used as additives for painting and coatings, printing inks and in plastics
23	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	No	Paint, printing ink, plastic
24	Coal tar pitch, high temperature	65996-93-2	No	Paint, moisture seal
25	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	No	Flame retardant, plasticizer
26	Aluminosilicate Refractory Ceramic Fibres	-	No	Used in metallurgy, electricity, petroleum, chemical, chinaware production
27	Zirconia Aluminosilicate,Refractory Ceramic Fibres	-	No	Used in metallurgy, incineration, petroleum, chinaware production
28	Acrylamide	79-06-1	No	used for synthesis of polyacrylamides and grouting agent in civil engineering
29	Trichloroethylene	79-01-6	No	manufacturing of chlorinated and fluorinated organic compounds; cleaning/degreasing of metal parts; adhesive solvent
30	Boric Acid	10043-35-3 11113-50-1	No	component of detergents, cleaners, adhesives, toys, industrial fluids, brake fluids, glass, ceramics, flame retardants, paints, disinfectants, cosmetics, food additives, fertilizers, and insecticides
31	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	No	in detergents and cleaners, in glass and glass fibres, ceramics, industrial fluids, metallurgy, adhesives, flame retardants, personal care products, biocides, fertilizers
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	No	in detergents and cleaners, in glass and glass fibres, ceramics, industrial fluids, metallurgy, adhesives, flame retardants, personal care products, biocides, fertilizers
33	Sodium chromate	7775-11-3	No	intermediate in the manufacture of chromium compounds; a laboratory analytical agent
34	Potassium chromate	7789-00-6	No	a corrosive inhibitor for metals; manufacture of reagents, chemicals and textiles; a colouring agent in ceramics; manufacture of pigments/inks; laboratory analytical agent
35	Ammonium dichromate	7789-09-5	No	Main use is oxidizing agent. Other uses: manufacture of photosensitive screens; mordant for textile manufacturing; metal treatment; laboratory analytical agent
36	Potassium dichromate	7778-50-9	No	Chrome metal manufacturing; metal corrision inhibitor; textile mordant; laboratory analytical agent; manufacture of reagents; oxidizing agent in photolithography
37	Cobalt (II) sulphate	10124-43-3	No	in pigments for porcelain and glass, storage batteries and additives to soil and animal feed
38	Cobalt (II) dinitrate	10141-05-6	No	in metal-organic structures to store gases

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
39	Cobalt (II) carbonate	513-79-1	No	in pottery glazes
40	Cobalt (II) diacetate	71-48-7	No	as a drying agent in paint and varnish
41	2-Methoxyethanol	109-86-4	No	as a solvent cleaning agent
42	2-Ethoxyethanol	110-80-5	No	in solvents such as paint removers and degreasing solutions
43	Chromium trioxide	1333-82-0	No	organic additive used in chrome plating
44	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 13530-68-2	No	as cleaning agents used for chrome plating; in cleaning solutions for glass/ceramic product
45	2-Ethoxyethyl acetate	111-15-9	No	solvent used in paint, wood stains, and varnish. Also used in mfg of super glue adhesive
46	Strontium chromate	7789-06-2	No	corrosion inhibitor of coil steel and aluminum, and vehicle coatings.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	No	plasticizer for PVC, foam, adhesives and coatings
48	Hydrazine	302-01-2 / 7803-57-8	No	reduction and refining of chemicals; also used as rocket fuel.
49	1-Methyl-2-pyrrolidone	872-50-4	No	solvent used in coatings and cleaning products, and paint stripper
50	1,2,3-Trichloropropane	96-18-4	No	solvent used in paint and varnish remover, a degreasing agent, and used in pesticides.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	No	plasticizer for PVC, sealants, coatings and in printing ink.
52	Lead styphnate	15245-44-0	No	Mainly used as a primer for small calibre and rifle ammunition. Other common uses are in ammunition pyrotechnics, powder actuated devices and detonators for civilian use.
53	Lead diazide, Lead azide	13424-46-9	No	Mainly used as initiator or booster in detonators for both civilian and military uses and as initiator in pyrotechnic devices.
54	Lead dipicrate	6477-64-1	No	The substance is an explosive like lead diazide and lead styphnate.
55	Phenolphthalein	77-09-8	No	Mainly used as laboratory agent (pH indicator solutions). Minor uses are in pharmaceutical preparations and in some special applications.
56	2,2'-Dichloro-4,4'-methylenedianiline	101-14-4	No	Mainly used as curing agent in resins and in the production of polymer articles and also for manufacture of other substances.
57	N,N-dimethylacetamide	127-19-5	No	Used as solvent, mainly in the manufacture of various substances and in the production of fibres for clothing . Also used as reagent, and in products such as industrial coatings, insulation paper, polyimide films, paint strippers and ink removers.
58	Trilead diarsenate	3687-31-8	No	Present in complex raw materials for manufacture of copper, lead and a range of precious metals.
59	Calcium arsenate	7778-44-1	No	Present in complex raw materials that are used mainly for copper and lead refining. Also used to precipitate nickel from the molten metal and to manufacture diarsenic trioxide.

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
60	Arsenic acid	7778-39-4	No	Mainly used to remove gas bubbles from ceramic glass melt (fining agent) and in production of laminated printed circuit boards. Also used in the manufacture of semiconductors and as laboratory agent.
61	Bis(2-methoxyethyl) ether	111-96-6	No	Used primarily as a reaction solvent or process chemical in a wide variety of applications. Also used as solvent for battery electrolytes, and possibly in sealants, adhesives, fuels and automotive care products.
62	1,2-Dichloroethane	107-06-2	No	Manufacture of other substances. Minor uses as solvent in chemical and pharmaceutical industries.
63	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	No	Manufacture of polymer preparations and of ethoxylate surfactants. Also used as a component in adhesives, coatings, inks and rubber articles.
64	2-Methoxyaniline; o-Anisidine	90-04-0	No	Manufacture of dyes for tattooing and coloration of paper, polymers and aluminium foil.
65	Bis(2-methoxyethyl) phthalate	117-82-8	No	Plasticiser in polymeric materials and paints, lacquers and varnishes, including printing inks.
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	No	Manufacture of other substances. Minor uses are as ion exchange resins in nuclear power plants, as hardener for epoxy resins.
67	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	No	High-temperature insulation, almost exclusively in industrial applications and in fire protection.
68	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	No	High-temperature insulation, almost exclusively in industrial applications and in fire protection.
69	Pentazinc chromate octahydroxide	49663-84-5	No	Vehicle coating and aeronautic / aerospace coating.
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	No	Aeronautic/ aerospace coating, steel and aluminium coil coating, and vehicle coating.
71	Dichromium tris(chromate)	24613-89-6	No	In mixtures for metal surface treatment in the aeronautic/aerospace, steel, and aluminium coating industries.
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	No	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals. Minor uses in brake fluids and repair of motor vehicles.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	No	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals, including use as an electrolyte solvent in lithium batteries.
74	Diboron trioxide	1303-86-2	No	Used in a multitude of applications, e.g. in glass and glass fibres, frits, ceramics, flame retardants, catalysts, industrial fluids, metallurgy, nuclear, electrical equipment, adhesives, inks/paints, film developing solutions, detergents and cleaners, reagent chemicals, biocides and insecticides.

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
75	Formamide	75-12-7	No	Mainly used as an intermediate in the manufacture of agrochemicals, pharmaceuticals and industrial chemicals. Minor uses as a solvent, as a laboratory reagent for quality control purposes in forensic laboratories, hospitals, pharmaceutical companies, food and drinks manufacturers and research laboratories. The substance seems to also be used as a plasticiser.
76	Lead(II) bis(methanesulfonate)	17570-76-2	No	Mainly used in plating processes (both electrolytic and electroless) for electronic components (such as printed circuit boards). The substance seems to also be used for batteries in special applications.
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	No	Mainly used as a hardener in resins and coatings. Also used in inks for the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilisers for plastics.
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	No	Mainly used as a solder mask ink in the EU. Also used in electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing, coatings, tools, adhesives, lining materials and stabilisers for plastics.
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	No	Used as an intermediate in the manufacture of triphenylmethane dyes and other substances. Further potential uses include use as an additive (photosensitiser) in dyes and pigments, in dry film products and as a process chemical in the production of electronic circuit boards.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	No	Used as an intermediate in the manufacture of dyes and other substances.
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) *[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]*	2580-56-5	No	Used in the formulation of inks, cleaners, and coatings, as well as for dyeing paper, packaging, textiles, plastic products, and other types of articles. It is also used in diagnostic and analytical applications.
82	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) *[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]*	548-62-9	No	Used mainly for paper colouring and inks supplied in printer cartridges and ball pens. Further uses include staining of dried plants, use as a marker for increasing the visibility of liquids, staining in microbial and clinical laboratories.
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol *[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]*	561-41-1	No	Used in the formulation of writing inks and potentially other inks, as well as for dyeing a variety of materials.

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) *[with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]*	6786-83-0	No	Mainly used in the formulation of printing and writing inks, for dyeing paper and in mixtures such as windscreen washing agents.
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	No	Flame retardants vPvB - very Persistent and very Bioaccumulative
86	Pentacosafluorotridecanoic acid	72629-94-8	No	Paint, paper, textile, leather, etc.
87	Tricosafluorododecanoic acid	307-55-1	No	Paint, paper, textile, leather, etc.
88	Henicosafluoroundecanoic acid	2058-94-8	No	Paint, paper, textile, leather, etc.
89	Heptacosafluorotetradecanoic acid	376-06-7	No	Paint, paper, textile, leather, etc.
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	No	Polymer, glue, ink
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7, 13149-00-3, 14166-21-3	No	Paint, ink, paper, glue, rubber products
92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	No	Paint, ink, paper, glue, rubber products
93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	No	Paint, ink, paper, glue, rubber products
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	No	Paint, ink, paper, glue, rubber products
95	Methoxyacetic acid	625-45-6	No	Intermediates
96	N,N-dimethylformamide	68-12-2	No	Leather, printed circuit board
97	Dibutyltin dichloride (DBTC)	683-18-1	No	Textiles and plastics, rubber products

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No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
98	Lead monoxide (Lead oxide)	1317-36-8	No	Glassware, ceramics, paint, rubber
99	Orange lead (Lead tetroxide)	1314-41-6	No	Glassware, ceramics, paint, rubber
100	Lead bis(tetrafluoroborate)	13814-96-5	No	Electroplating, welding, analytical reagent
101	Trilead bis(carbonate)dihydroxide	1319-46-6	No	Paints, coatings, inks, plastic products
102	Lead titanium trioxide	12060-00-3	No	Semiconductors, coatings, electronic ceramic filter
103	Lead titanium zirconium oxide	12626-81-2	No	Optical products, electronic products, electronic ceramic parts
104	Silicic acid, lead salt	11120-22-2	No	Glass enamelware
105	Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	No	Glass ceramics
106	1-bromopropane (n-propyl bromide)	106-94-5	No	Drugs, dyes, perfumes, intermediates
107	Methyloxirane (Propylene oxide)	75-56-9	No	Intermediates
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	No	Plasticizer
109	Diisopentylphthalate (DIPP)	605-50-5	No	Plasticizer
110	N-pentyl-isopentylphthalate	776297-69-9	No	Plasticizer
111	1,2-diethoxyethane	629-14-1	No	Paints, inks, intermediates
112	Acetic acid, lead salt, basic	51404-69-4	No	Paints, coatings, paint strippers, thinners
113	Lead oxide sulfate	12036-76-9	No	Plastic
114	[Phthalato(2-)]dioxotrilead	69011-06-9	No	Plastic
115	Dioxobis(stearato)trilead	12578-12-0	No	Plastic
116	Fatty acids, C16-18, lead salts	91031-62-8	No	Plastic
117	Lead cynamidate	20837-86-9	No	Antirust
118	Lead dinitrate	10099-74-8	No	Dye, leather, pigments
119	Pentalead tetraoxide sulphate	12065-90-6	No	Plastic, battery
120	Pyrochlore, antimony lead yellow	8012-00-8	No	Paints, coatings, glass ceramics
121	Sulfurous acid, lead salt, dibasic	62229-08-7	No	Glass ceramics
122	Tetraethyllead	78-00-2	No	Fuel Additive
123	Tetralead trioxide sulphate	12202-17-4	No	Pigments, plastic, battery

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No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
124	Trilead dioxide phosphonate	12141-20-7	No	Plastics stabilizers
125	Furan	110-00-9	No	Solvents, organic synthesis
126	Diethyl sulphate	64-67-5	No	Dyes, polymers
127	Dimethyl sulphate	77-78-1	No	Dyes, polymers
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	No	Rubber products
129	Dinoseb (6-*sec* -butyl-2,4-dinitrophenol)	88-85-7	No	Plastic
130	4,4'-methylenedi-*o* -toluidine	838-88-0	No	Insulating material, polyurethane adhesives, epoxy curing agent
131	4,4'-oxydianiline and its salts	101-80-4	No	Dye intermediates, synthetic resin
132	4-aminoazobenzene	60-09-3	No	Dye intermediates
133	4-methyl-*m* -phenylenediamine (toluene-2,4-diamine)	95-80-7	No	Dyes, pharmaceutical intermediates and other organic synthesis
134	6-methoxy-*m* -toluidine (p-cresidine)	120-71-8	No	Intermediates, dyes synthesis
135	Biphenyl-4-ylamine	92-67-1	No	Dye and pesticide intermediates
136	*o* -aminoazotoluene [(4-*o* -tolylazo-*o* -toluidine])	97-56-3	No	
137	*o* -toluidine	95-53-4	No	Dye intermediates
138	*N* -methylacetamide	79-16-3	No	Intermediates
139	Cadmium	7440-43-9	No	Applied Nickel - cadmium batteries, metal and electronic parts of the plating materials, various alloys improved materials, coatings
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	No	Ammonium salt of PFOA, for the production of dispersion-type PTFE resin / fluorine rubber, a dispersing agent, a surfactant and efficient
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	No	Paper / leather / textile surface treatment agent, fire fighting foam, wire insulation, engine protection agents, do not paint adhesion
142	Dipentyl phthalate (DPP)	131-18-0	No	PVC plasticizers
143	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	No	Coating formulations, industrial coatings, emulsion polymerization additives, detergents
144	Cadmium oxide	1306-19-0	No	Applied Nickel - cadmium batteries, metal and electronic parts of the plating materials, various alloys improved materials, coatings, plastics coatings, glass / ceramic materials, plastics polymerization heat stabilizer

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No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
145	Cadmium sulphide	1306-23-6	No	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	No	Carcinogenic (Article 57a);
147	Dihexyl phthalate	84-75-3	No	Toxic for reproduction (Article 57 c);
148	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	No	Toxic for reproduction (Article 57 c);
149	Trixylyl phosphate	25155-23-1	No	Toxic for reproduction (Article 57 c);
150	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	No	Carcinogenic (Article 57a);
151	Lead di (acetate)	301-04-2	No	Toxic for reproduction (Article 57 c);
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 鄰苯二甲酸二己酯（支鏈和直鏈）	68515-50-4	No	Toxic for reproduction (Article 57 c)
153	Cadmium chloride 氯化鎘	10108-64-2	No	Toxic for reproduction (Article 57 c)
154	Sodium perborate; perboric acid, sodium salt 過硼酸鈉	-	No	Toxic for reproduction (Article 57 c)
155	Sodium peroxometaborate 過氧偏硼酸鈉	7632-04-4	No	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
156	Cadmium fluoride 氟化鎘	7790-79-6	No	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
157	Cadmium sulphate 硫化鎘	10124-36-4; 31119-53-6	No	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑	3846-71-7	No	PBT (Article 57 d); vPvB (Article 57 e)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 二正辛基-雙（2-乙基己基巯基乙酸酯）錫	25973-55-1	No	PBT (Article 57 d); vPvB (Article 57 e)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) 二正辛基-雙（2-乙基己基巯基乙酸酯）錫	15571-58-1	No	Toxic for reproduction (Article 57 c)

No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) 二正辛基-雙（2-乙基己基巯基乙酸酯）錫和單辛基-三(2-乙基己基巯基乙酸酯)錫的反應物	-	No	Toxic for reproduction (Article 57 c)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate 鄰苯二甲酸二（C6-C6）烷基酯：(癸基，己基，辛基)酯與1，2-鄰苯二甲酸的複合物且鄰苯二甲酸二己酯含量≥ 0.3%	68515-51-5 68648-93-1	No	Toxic for reproduction (Article 57 c) The registered uses are for example in adhesives, lubricants, coatings, building material, cable ompounding, polymer foils, PVC compounds and artist supply.
163	5-sec-butyl-2-(2,4- dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] [1]為卡拉花醛，[2]為卡拉花醛的一種同分異構化合物	-	No	vPvB (Article 57e)
164	Nitrobenzene 硝苯	98-95-3	No	Toxic for reproduction (Article 57 c)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) 2,4-貳三級丁基-6-(5-氯苯三唑-2-基)苯酚 (UV-327)	3864-99-1	No	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2H-苯并三唑-2-基)-4-三級丁基-6-二級丁基苯酚(UV-350)	36437-37-3	No	vPvB (Article 57 e)
167	1,3-propanesultone 1,3-丙磺內酯	1120-71-4	No	Carcinogenic (Article 57 a)
168	Perfluorononan-1-oic-acid and its sodium and ammonium salt 十七全氟壬酸及其鈉與銨鹽	375-95-1 21049-39-8 4149-60-4	No	Toxic for reproduction (Article 57 c) PBT (Article 57 d
169	Benzo[def]chrysene (Benzo[a]pyrene) 苯并[a]芘	50-32-8	No	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)
170	4,4'-isopropylidenediphenol 雙酚 A	80-05-7	No	Toxic for reproduction (Article 57c)

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No	Substance	CAS No.	Over limit (Yes / No) If yes, please describe:	Possible Applications
171	4-Heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a ombination thereof 4-庚基苯酚, 支鍊及直鍊包括含有 7 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 7 個碳烷基鏈的 UVCB物質	-	No	Equivalent level of concern having probable serious effects to environment (Article 57f)
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt 十九氟癸酸及其鈉與銨鹽 全氟癸酸銨 全氟癸酸鈉	335-76-2 3108-42-7 3830-45-3	No	Toxic for reproduction (Article 57c) PBT (Article 57d)
173	p-(1,1-dimethylpropyl)phenol 對-(1,1-二甲基丙基)苯酚	80-46-6	No	Equivalent level of concern having probable serious effects to environment (Article 57f)

聲明：

本公司保證上述資料真實性且正確，此外，如有任何變更，本公司將事先通知福盈電子有限公司，並取得書面同意後，使得變更內容。

供應商（法人或授權人）簽字、蓋章、簽署時間：

簽署： 陳清學

蓋章：

瑞興電綫電纜(東莞)有限公司

日期： 2017-2-16

备注：Reach指令，各SVHC单項含量小于0.1%。

瑞兴品保

2017-2-16

福盈電子有限公司

Declaration of REACH

特此聲明提供給福盈電子有限公司（以下簡稱福盈）之全部產品均符合最新歐盟 REACH 法規（EC） No. 1907/2006 與未來相關法規更新之要求，日後若因法規（含高度關注物質候選清單）更新，或交貨品項增加以致無法符合，本公司應立即主動以書面通知福盈。

Hereby declare on all products supplied to FUW YNG ELECTRONICS CO.,LTD. （" FY"）comply in accordance with the up-to-date EU regulation (EC) No. 1907/2006 concerning the Registration Evaluation Authorization and Restriction of Chemicals and its future updates. If the compliance cannot be maintained in the future due to the renewed EU regulation including the updates on the candidate List of Substances of Very High Concern (SVHC) or the added products supplied, the company shall inform FY in written notice immediately.

Content of Compliance

SVHC 0.1 % by weight (1000 ppm)

瑞興電線電纜(東莞)有限公司

Company Name： 瑞興电线电缆(东莞)有限公司

Address： 广东省东莞市安贝镇增田樱园路1号

Name： 陈清学

Signature： 陈清学

Date： 2017-2-16

RICH BAY
富灣股份有限公司
RICH BAY COMPANY LTD.
新北市樹林區東興街 57 號
No. 57, Dongxing St., Shulin Dist., New Taipei City 23850, Taiwan,R.O.C.
TEL:886-2-8686-7781 FAX: 886-2-8686-7780
http://www.richbay.com.tw E-mail:exporting@richbay.com.tw

產品承認書

SPECIFICATION FOR APPROVAL

客戶名稱 **(MESSER)** ：浩誠電子實業有限公司

送樣日期： **(DATE)** ：

機種名稱： **(MATERIAL NAME)** ：

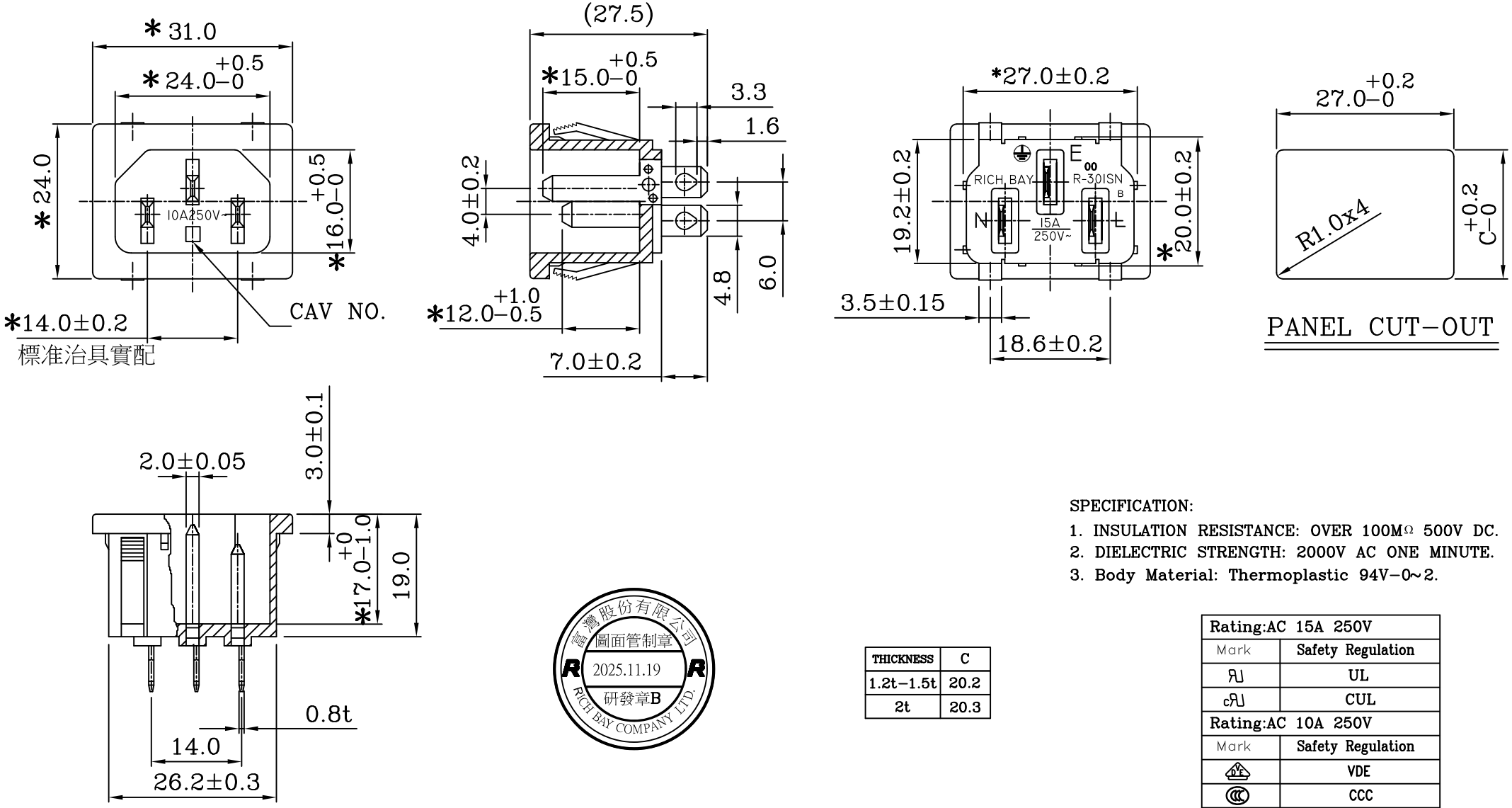
產品品名： **(PART NAME)** ：**IEC C14 Inlet**

產品型號： **(PART NO.)** ：**R-301SN(B298)**

客戶料號： **(CUSTOMER PART NO.)** ：

承認印 APPROVED BY				
採購部 **PURCHASING**	品保部 **QC.**	研發工程部 **R&D**		
APPRPVED NO.				

核准：	戴 銘 璋	審核：	鄭 榮 裕	制表：	謝 亞 芬	日期：	2025/12/19



SPECIFICATION:

1. INSULATION RESISTANCE: OVER 100MΩ 500V DC.
2. DIELECTRIC STRENGTH: 2000V AC ONE MINUTE.
3. Body Material: Thermoplastic 94V−0~2.

THICKNESS	C
1.2t−1.5t	20.2
2t	20.3

Rating:AC 15A 250V	
Mark	Safety Regulation
	UL
	CUL
Rating:AC 10A 250V	
Mark	Safety Regulation
	VDE
	CCC
	ENEC

富灣股份有限公司 圖面管制章 2025.11.19 研發章B RICH BAY COMPANY LTD.

富灣(佛岡)五金電器有限公司 RICH BAY(FOGANG) HARDWARE ELECTRONIC CO., LTD.	UNIT	UNIT Q'TY	SCALE	TOLERANCE	X.XX±0.1 XX.XX±0.2 XXX.XX±0.3	PRODUCT NO.	R−301SN(B298)	REV
	mm	1	1:1					
DRAWN BY 李 2025.11.19 小英	APPROVED BY 朱 2025.11.19 显德			ID NO	25111901Q	INTERIM NO.		A
				DESCRIPTION		NEW NO.		

CERTIFICATE OF COMPLIANCE

Certificate Number	E184638
Report Reference	E184638-20060125
Date	2021-June-07

Issued to:

RICH BAY CO LTD
57 Dongxing St
Shulin District
New Taipei23850 TW

This is to certify that representative samples of

ATTACHMENT PLUGS, FUSELESS - COMPONENT

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:

UL 60320-1 - Appliance Couplers For Household And Similar General Purposes – Part 1: General Requirements

CSA C22.2 No. 60320-1-11 - Appliance Couplers For Household And Similar General Purposes – Part 1: General Requirements

Additional Information:

See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

DLL512

CERTIFICATE OF COMPLIANCE

Certificate Number	E184638
Report Reference	E184638-20060125
Date	2021-June-07

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Component – Appliance Inlets, Models R-301, R-301SN:

R-301SN-21, R-30190, R-30190-B206, R-201A, R-201A90, R-201B, R-201B90, R-201SN and R-201SN90.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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DLL512

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG
MARKS APPROVAL

Rich Bay Co., Ltd.
No. 57, Dongxing Street
Shulin District
23850 New Taipei City
Taiwan

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Gerätestecker
Appliance inlet

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

und/oder - *and/or*

Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN IEC 60320-1 (VDE 0625-1):2023-06; EN IEC 60320-1:2021

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of

IEC 60320-1:2021

Aktenzeichen: 1608400-1550-0006 / 313914
File ref.:

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*

Ausweis-Nr. 40030228 Blatt 1
Certificate No. *Page*

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2010-06-07
(letzte Änderung / updated 2024-02-27)

M. Tasotti

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VDE Prüf- und Zertifizierungsinstitut
Zeichengenehmigung

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
Rich Bay Co., Ltd., No. 57, Dongxing Street, Shulin District, 23850 NEW TAIPEI CITY, TAIWAN

Aktenzeichen / *File ref.*	letzte Änderung / *updated*	Datum / *Date*
1608400-1550-0006 / 313914 / TL3 / E	2024-02-27	2010-06-07

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40030228.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40030228.

Gerätestecker
Appliance inlet

Typ(en) / *Type(s)*

R-301SN

Bemessungsspannung *Rated voltage*	AC 250 V
Bemessungsstrom *Rated current*	10 A
Polzahl *Number of poles*	2-polig mit Schutzkontakt *2-pole with earthing contact*
Bauart *Kind of construction*	Normblatt C14 *standard sheet C14*
Stifttemperatur *Temperature of the pins*	max. 70°C
Anschlussart *Connection method*	Lötanschluß *solder terminals*
Art der Montage *Method of mounting*	Einbau für Geräte der Schutzklasse I *built into class I appliances* Snap-In-Befestigung *snap-in mounting*

Fortsetzung siehe Blatt 3 /
continued on page 3

Merianstrasse 28, D-63069 Offenbach
Phone +49 (0) 69 83 06-0
Telefax +49 (0) 69 83 06-555
DLL512

中国国家强制性产品认证证书

证书编号：2003010204100738

认证委托人名称及地址

富湾(佛冈)五金电器有限公司
广东省清远市佛冈县汤塘镇聚宝工业园聚福路 1 号 17 栋 101、201

生产者名称及地址

富湾(佛冈)五金电器有限公司
广东省清远市佛冈县汤塘镇聚宝工业园聚福路 1 号 17 栋 101、201

生产企业名称及地址

富湾(佛冈)五金电器有限公司
广东省清远市佛冈县汤塘镇聚宝工业园聚福路 1 号 17 栋 101、201

产品名称和系列、型号、规格

带开关用于冷条件下 I 类设备的 10A 250V 器具输入插座；带熔断器座用于冷条件下 I 类设备的 10A 250V 器具输入插座；用于冷条件下 I 类设备的 10A 250V 器具输入插座

R-301SN B07、R-301SN 77、R-301SN 79、R-301SN B09 10A 250V～； R-3015、R-3016、R-3013、R-3014、R-3013S、R-3014S 10A 250V～； R-301SN 00、R-301SN、R-30190、R-30190 B11、R-301SN B11、R-301SN B60、R-301 10A 250V～

产品标准和技术要求

GB/T 17465.1-2022;GB/T 17465.6-2022

上述产品符合《强制性产品认证实施规则 电路开关及保护或连接用电器装置（电器附件）》（CNCA-C02-01:2014）的要求，特发此证。

发证日期：2024 年 10 月 17 日 **有效期至：**2029 年 10 月 16 日

本证书为变更证书，证书首次颁发日期：2003 年 12 月 17 日

证书信息和有效性可扫描下方二维码或登录发证机构网站查验，
也可在认监委网站（www.cnca.gov.cn）查询。

经中国合格评定国家认可委员会认可 CNAS C001-P

签发：谢肇煦

中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE

中国质量认证中心有限公司

SCE537

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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2003010204100738

NAME AND ADDRESS OF THE APPLICANT

RICH BAY (FO GANG) HARDWARE ELECTRONIC CO., LTD.
101、201 ,Building 17, NO.1 Jufu Road, Jubao Industrial Park, Tangtang town, Fogang County, Qingyuan City, Guangdong Province, China

NAME AND ADDRESS OF THE MANUFACTURER

RICH BAY (FO GANG) HARDWARE ELECTRONIC CO., LTD.
101、201 ,Building 17, NO.1 Jufu Road, Jubao Industrial Park, Tangtang town, Fogang County, Qingyuan City, Guangdong Province, China

NAME AND LOCATION OF THE FACTORY

RICH BAY (FO GANG) HARDWARE ELECTRONIC CO., LTD.
101、201 ,Building 17, NO.1 Jufu Road, Jubao Industrial Park, Tangtang town, Fogang County, Qingyuan City, Guangdong Province, China

PRODUCT NAME,MODEL AND SPECIFICATION

10A 250V Appliance Inlet for Class I Equipment for Cold Conditions With Switch；10A 250V Appliance Inlet for Class I Equipment for Cold Conditions With Fuse-Holders；10A 250V Appliance Inlet for Class I Equipment for Cold Conditions

R-301SN B07、R-301SN 77、R-301SN 79、R-301SN B09 10A 250V～； R-3015、R-3016、R-3013、R-3014、R-3013S、R-3014S 10A 250V～； R-301SN 00、R-301SN、R-30190、R-30190 B11、R-301SN B11、R-301SN B60、R-301 10A 250V～

STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T 17465.1-2022;GB/T 17465.6-2022

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO. CNCA-C02-01:2014).

Valid from: Oct.17,2024 **Valid until:** Oct.16,2029

Date of original issued: Dec.17,2003

The certificate information and validity could be checked by scanning the QR code below or logging in to the website of the issuing authority, or on the website of the CNCA (www.cnca.gov.cn).

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

SIGNATURE: 谢肇煦

中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE

中国质量认证中心有限公司 1101061026946

SCE537

CHINA QUALITY CERTIFICATION CENTRE CO., LTD.

測試報告
Test Report

號碼(No.): ETR25604237　　日期(Date): 26-Jun-2025　　

協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	協祐股份有限公司 (WGJ COMPANY LTD.)
樣品名稱(Sample Name)	:	CELANESE ZYTEL N-66
樣品型號(Style/Item No.)	:	FR50BK

==========

收件日(Sample Receiving Date)	:	20-Jun-2025
測試期間(Testing Period)	:	20-Jun-2025 to 26-Jun-2025

測試需求(Test Requested) :
(1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結　論(Conclusion) :
(1) 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: BF5EFBA4

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測試報告
Test Report

協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 黑色塑膠粒 (BLACK PLASTIC PELLETS)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	12.9	1000
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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測試報告
Test Report

協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-

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測試報告
Test Report

號碼(No.): ETR25604237 日期(Date): 26-Jun-2025

協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008，以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	944	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	143000	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (Perfluorooctane sulfonates and its salts (PFOS and its salts)) (CAS No.: 1763-23-1 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022，以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (Perfluorooctanoic acid and its salts (PFOA and its salts)) (CAS No.: 335-67-1 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022，以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-

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協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法(w=0)進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

PFAS Remark：

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)
(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH_4) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH_4)	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(C2H4OH)2) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C2H4OH)2)	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-$N(C_2H_5)_4$) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	全氟辛基磺酸四丁基銨 (PFOS-$N(C_4H_9)_4$) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
	全氟辛烷磺酸鹽 Perfluorooctanesulfonate (anion)	45298-90-6
	全氟辛烷磺酸與 N,N-二乙基乙胺 (1:1) (PFOS-N(C_2H_5)$_3$) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C_2H_5)$_3$)	54439-46-2
	N,N,N-三甲基-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸甲銨(1:1) (PFOS-N(CH_3)$_4$) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH_3)$_4$)	56773-44-5
	1-五胺，N,N,N-三丙基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽(1:1) (PFOS-N(C_3H_7)$_3$(C_5H_{11})) 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C_3H_7)$_3$(C_5H_{11}))	56773-56-9
	1-丁銨，N,N-二丁基-N-甲基-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1) (PFOS-N(C_4H_9)$_3$(CH_3)) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C_4H_9)$_3$(CH_3))	124472-68-0
	碘鎓，雙[4-(1,1-二甲基乙基)苯基]-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1-辛烷磺酸鹽 (1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	二苯基鋶(2,4,6-三甲基苯基)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8 ,8-十七氟- 1-辛烷磺酸鹽 (1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	吡啶鎓，1-十六烷基-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽 (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	1-癸胺，N,N,N-三乙基-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽(1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	全氟辛烷磺酸四丁基鏻 (PFOS-P(C_4H_9)$_4$)) Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)$_4$))	2185049-59-4
	全氟辛烷磺酸二乙胺鹽 (PFOS-$C_4H_{11}N$) Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
	庚基二甲基{2-[(2-甲基丙-2-烯酰基)氧基]乙基}全氟辛烷磺酸氮鎓鹽 (PFOS-$C_{15}H_{30}NO_2$) Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
	1-辛烷磺酸，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-,1,1' -酸酐 (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	全氟辛酸鈷 (PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	全氟辛酸銫 (PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸鉻 (PFOA-Cr(3^+)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3^+))	68141-02-6
	全氟辛酸-哌嗪(2:1) PFOA-NH($C_4H_{10}N$) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH($C_4H_{10}N$)	423-52-9
	全氟辛酸鹽 Pentadecafluorooctanoate (anion)	45285-51-6
	全氟辛酸酐 Perfluorooctanoic Anhydride	33496-48-9
	乙銨，N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	全氟辛酸四甲銨鹽 Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-丙銨，N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	辛酸，2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-鉀鹽，水合物 (1:1:2) (PFOA-K(H_2O)$_2$) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H_2O)$_2$)	98065-31-7
	辛酸，2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-，化合物。與乙胺 (1:1) (PFOA-C_2H_7N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
	十五氟辛酸化合物與吡啶 (1:1) (9CI) (PFOA-C_5H_5N) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C_5H_5N)	95658-47-2
	十五氟辛酸-1-苯基哌嗪(1:1) (PFOA-$C_{10}H_{14}N_2$) Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
	1-辛胺，N,N,N-三甲基-，2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) (PFOA- $C_{11}H_{26}N$) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$)	927835-01-6

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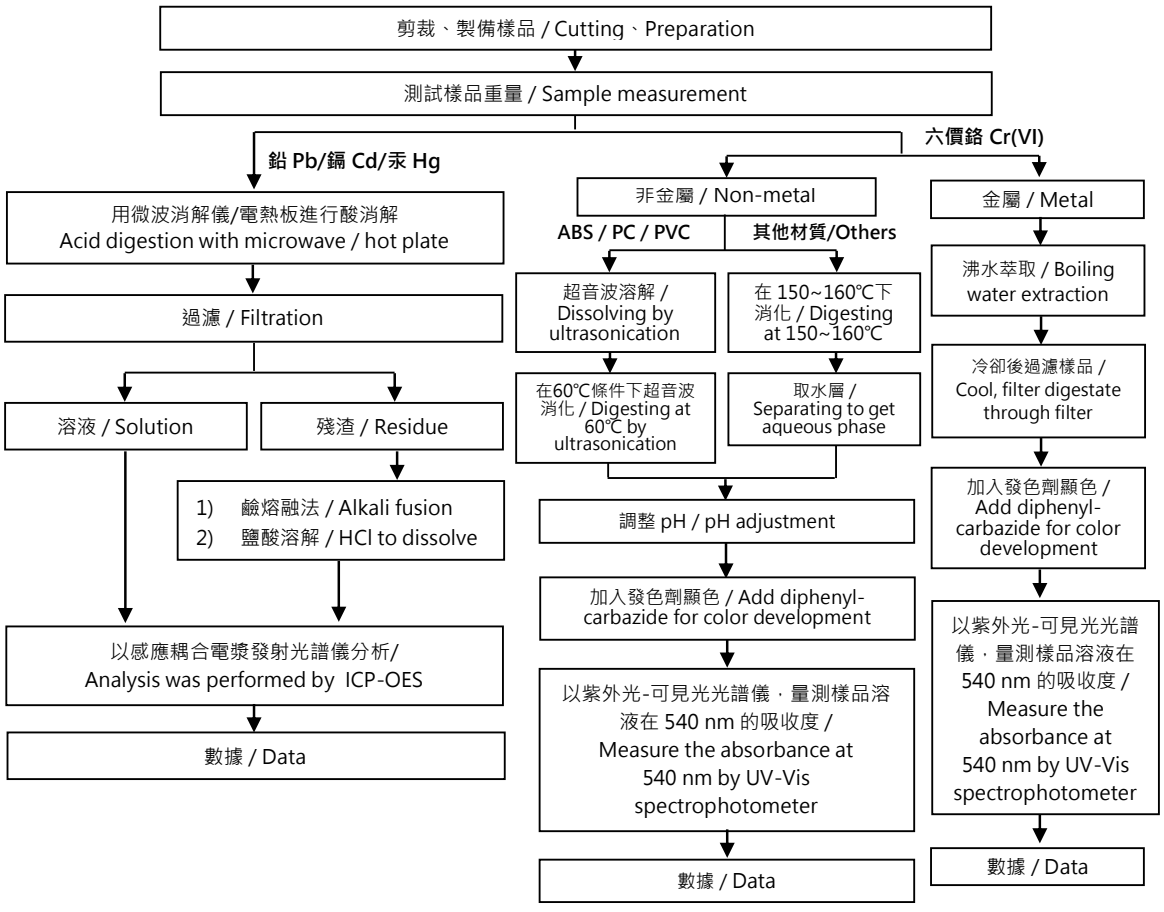
重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

These samples were dissolved totally by pre-conditioning method according to below flow chart.
（Cr^{6+} test method excluded）



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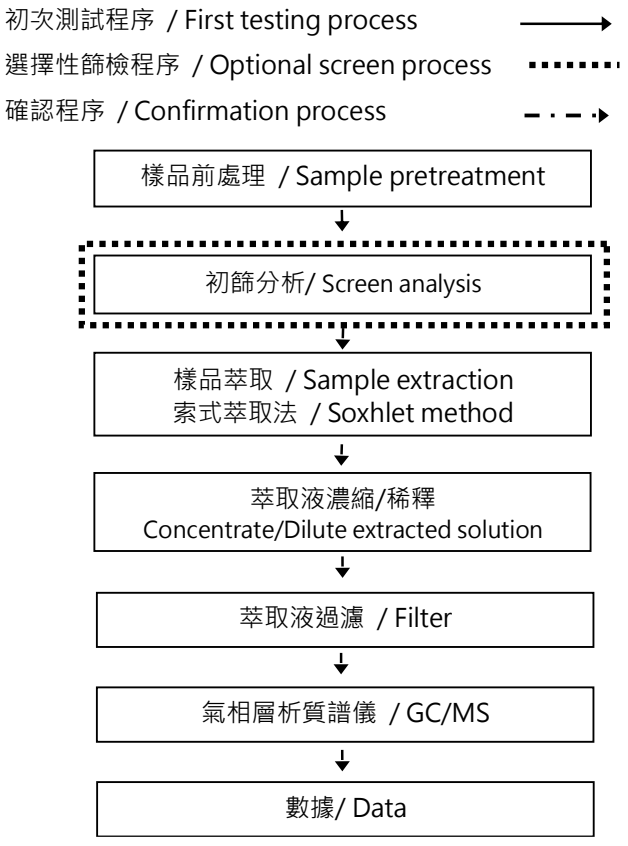
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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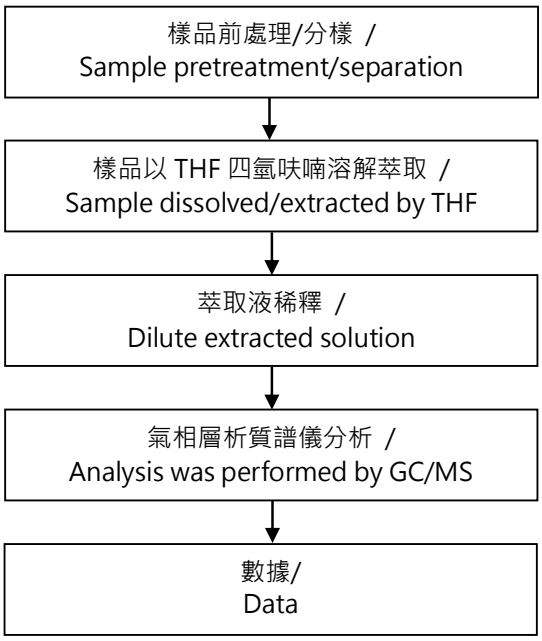
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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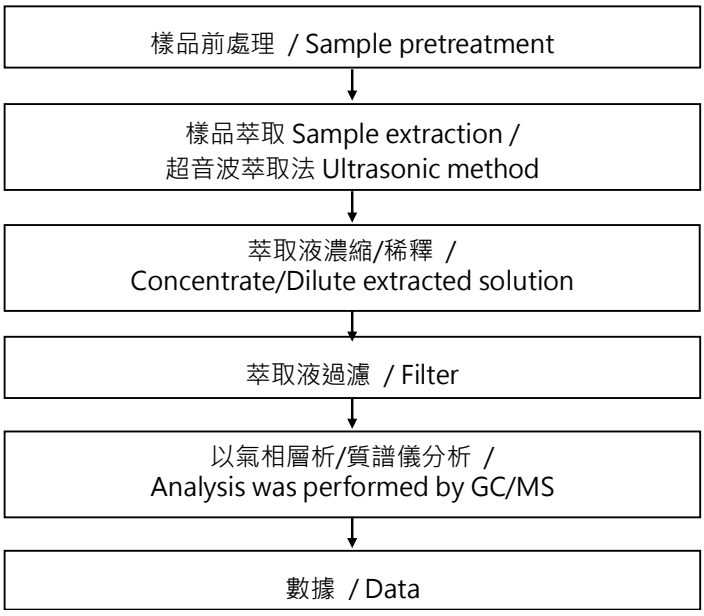
六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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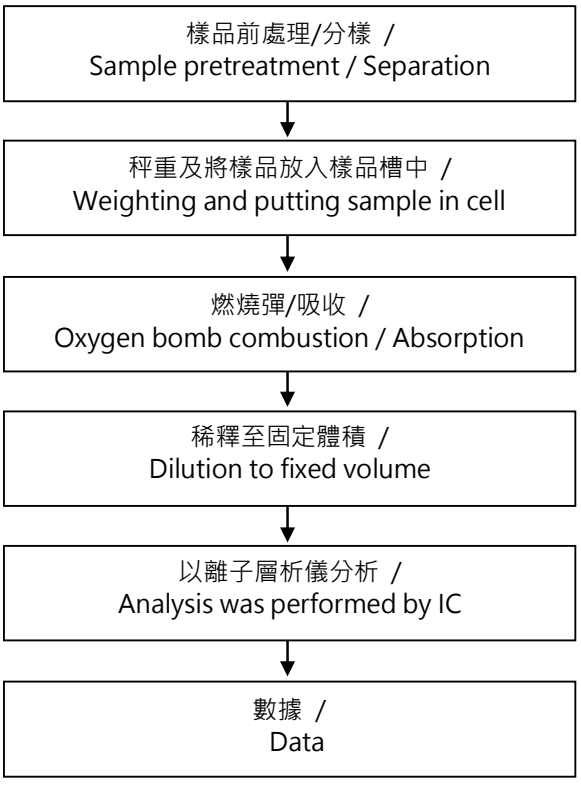
鹵素分析流程圖 / Analytical flow chart - Halogen



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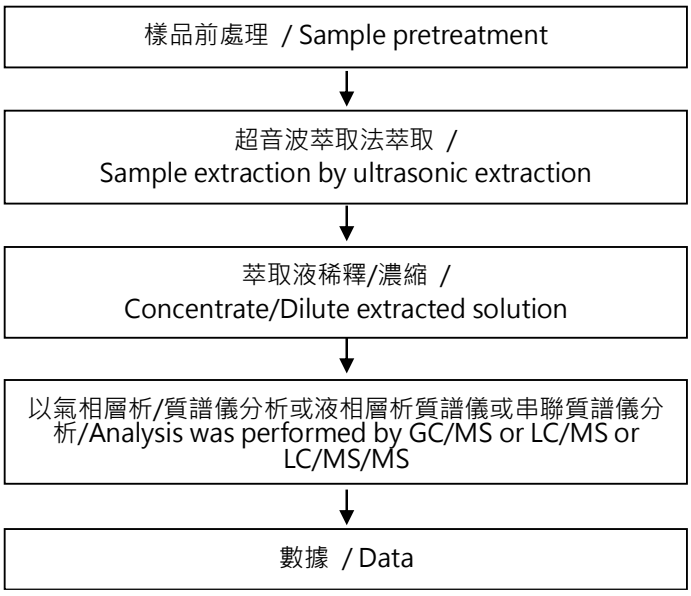
全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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測試報告
Test Report

協祐股份有限公司 (WGJ COMPANY LTD.)
桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR25604237



** 報告結尾 (End of Report) **

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測試報告
Test Report

號碼(No.): ETR25705435　　日期(Date): 06-Aug-2025　　頁數(Page): 1 of 17

怡程金屬(深圳)有限公司 (YI CHENG (SHENZHEN) CO., LED)
深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	怡程股份有限公司 (LIGHTWAY INTERNATIONAL CO., LTD.)
樣品名稱(Sample Name)	:	黃銅
樣品型號(Style/Item No.)	:	C2680

==========

收件日(Sample Receiving Date)	:	30-Jul-2025
測試期間(Testing Period)	:	30-Jul-2025 to 06-Aug-2025

測試需求(Test Requested) :
(1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結　　論(Conclusion) :
(1) 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

CHECK REPORT
PIN CODE: 07EA8440

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測試報告
Test Report

怡程金屬(深圳)有限公司 (YI CHENG (SHENZHEN) CO., LED)
深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

測試部位敘述 (Test Part Description)

No.1 : 黃銅色金屬 (BRASS METAL)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	8.13	1000
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#2)	參考IEC 62321-7-1: 2015，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	μg/cm²	0.1	n.d.	-
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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Test Report

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深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3050B: 1996，以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-

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測試報告
Test Report

怡程金屬(深圳)有限公司 (YI CHENG (SHENZHEN) CO., LED)
深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
砷 (As) (Arsenic (As)) (CAS No.: 7440-38-2)	參考US EPA 3050B: 1996，以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3050B: 1996，以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)	參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (Perfluorooctane sulfonates and its salts (PFOS and its salts)) (CAS No.: 1763-23-1 and its salts)	修改EN 17681-1: 2022 & EN 17681-2: 2022，以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-
全氟辛酸及其鹽類 (PFOA and its salts) (Perfluorooctanoic acid and its salts (PFOA and its salts)) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	n.d.	-

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怡程金屬(深圳)有限公司 (YI CHENG (SHENZHEN) CO., LED)
深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. (#2) =
   a. 當六價鉻結果大於0.13 μg/cm²，表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr(VI).)
   b. 當六價鉻結果為n.d. (濃度小於0.10 μg/cm²)，表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating)
   c. 當六價鉻結果介於 0.10 及 0.13 μg/cm² 時，無法確定塗層是否含有六價鉻。(The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.)
6. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法(w=0)進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

PFAS Remark：

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)
(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH_4) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH_4)	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-NH(C2H4OH)2) Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C2H4OH)2)	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-$N(C_2H_5)_4$) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	全氟辛基磺酸四丁基銨 (PFOS-$N(C_4H_9)_4$) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0

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深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
	全氟辛烷磺酸鹽 Perfluorooctanesulfonate (anion)	45298-90-6
	全氟辛烷磺酸與 N,N-二乙基乙胺 (1:1) (PFOS-N(C_2H_5)$_3$) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C_2H_5)$_3$)	54439-46-2
	N,N,N-三甲基-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸甲銨(1:1) (PFOS-N(CH_3)$_4$) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH_3)$_4$)	56773-44-5
	1-五胺，N,N,N-三丙基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽(1:1) (PFOS-N(C_3H_7)$_3$(C_5H_{11})) 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C_3H_7)$_3$(C_5H_{11}))	56773-56-9
	1-丁銨，N,N-二丁基-N-甲基-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1) (PFOS-N(C_4H_9)$_3$(CH_3)) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C_4H_9)$_3$(CH_3))	124472-68-0
	碘鎓，雙[4-(1,1-二甲基乙基)苯基]-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 -十七氟-1-辛烷磺酸鹽 (1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	二苯基鋶(2,4,6-三甲基苯基)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8 ,8-十七氟- 1-辛烷磺酸鹽 (1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	吡啶鎓，1-十六烷基-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽 (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	1-癸胺，N,N,N-三乙基-，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1 -辛烷磺酸鹽(1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	全氟辛烷磺酸四丁基鏻 (PFOS-P(C_4H_9)$_4$)) Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)$_4$))	2185049-59-4
	全氟辛烷磺酸二乙胺鹽 (PFOS-$C_4H_{11}N$) Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
	庚基二甲基{2-[(2-甲基丙-2-烯酰基)氧基]乙基}全氟辛烷磺酸氮鎓鹽 (PFOS-$C_{15}H_{30}NO_2$) Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
	1-辛烷磺酸，1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-,1,1' -酸酐 (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
	全氟辛基磺醯氯(PFOS-Cl) Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	全氟辛酸鈷 (PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	全氟辛酸銫 (PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	全氟辛酸鉻 (PFOA-Cr(3^+)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3^+))	68141-02-6
	全氟辛酸-哌嗪(2:1) PFOA-NH($C_4H_{10}N$) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH($C_4H_{10}N$)	423-52-9
	全氟辛酸鹽 Pentadecafluorooctanoate (anion)	45285-51-6
	全氟辛酸酐 Perfluorooctanoic Anhydride	33496-48-9
	乙銨，N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	全氟辛酸四甲銨鹽 Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-丙銨，N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	辛酸，2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-鉀鹽，水合物 (1:1:2) (PFOA-K(H_2O)$_2$) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H_2O)$_2$)	98065-31-7

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群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	辛酸，2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-，化合物。與乙胺 (1:1) (PFOA-C_2H_7N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
	十五氟辛酸化合物與吡啶 (1:1) (9CI) (PFOA-C_5H_5N) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C_5H_5N)	95658-47-2
	十五氟辛酸-1-苯基哌嗪(1:1) (PFOA-$C_{10}H_{14}N_2$) Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
	1-辛胺，N,N,N-三甲基-，2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸(1:1) (PFOA- $C_{11}H_{26}N$) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$)	927835-01-6
	全氟辛醯氯 (PFOA-Cl) Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8

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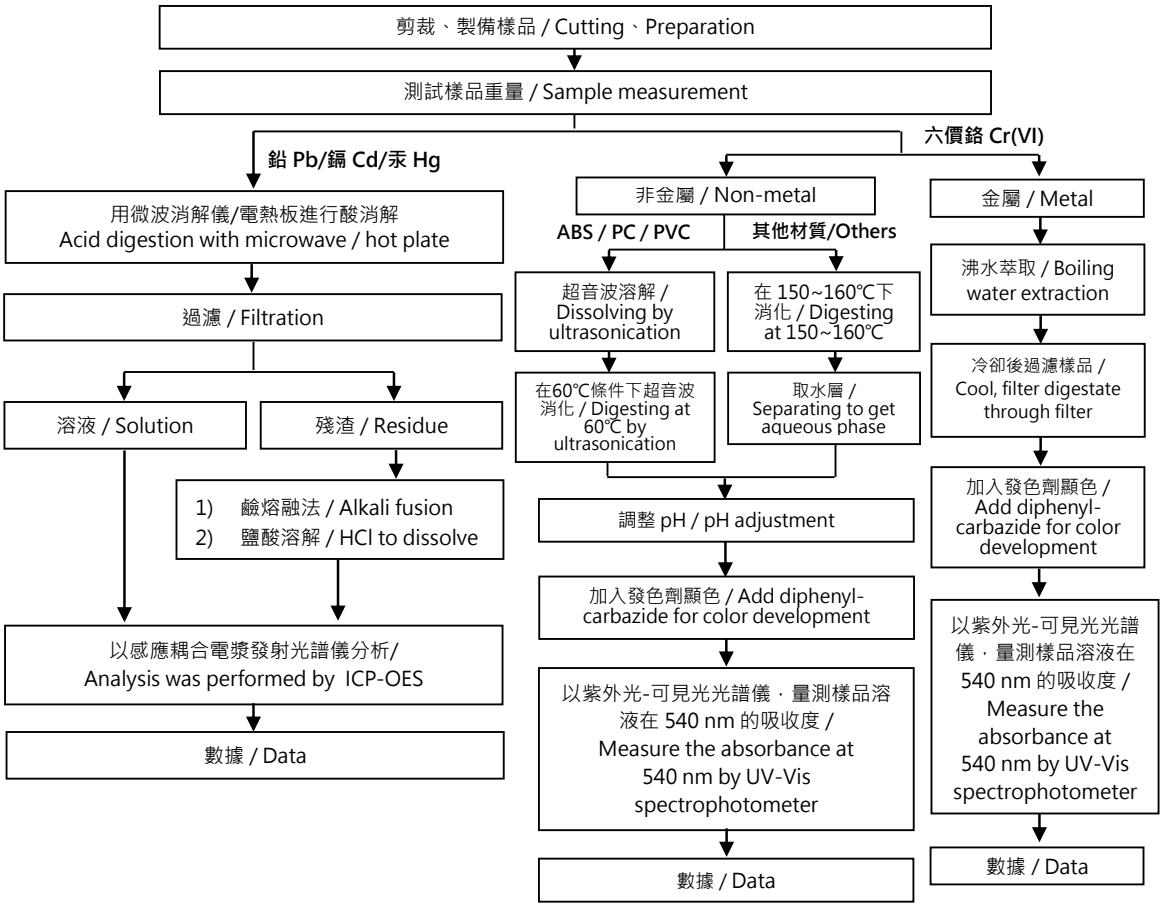
重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）
These samples were dissolved totally by pre-conditioning method according to below flow chart.
（Cr^{6+} test method excluded）



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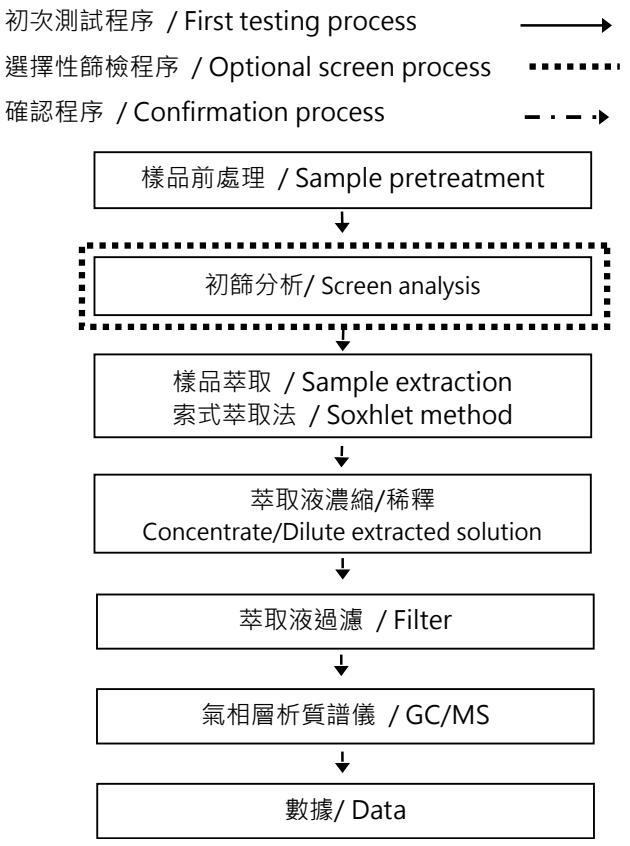
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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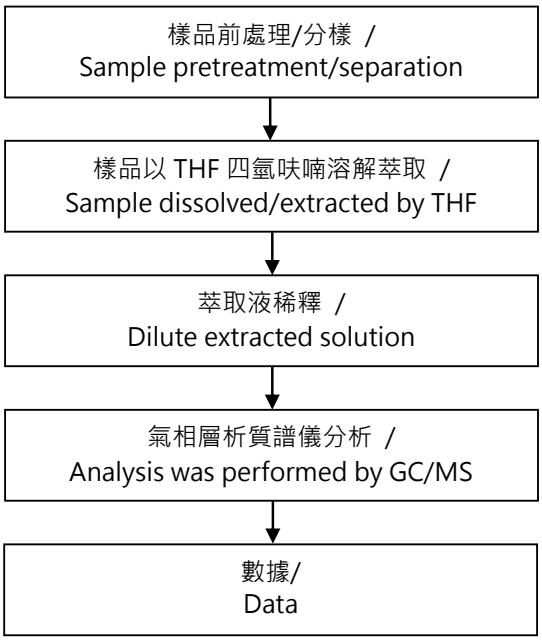
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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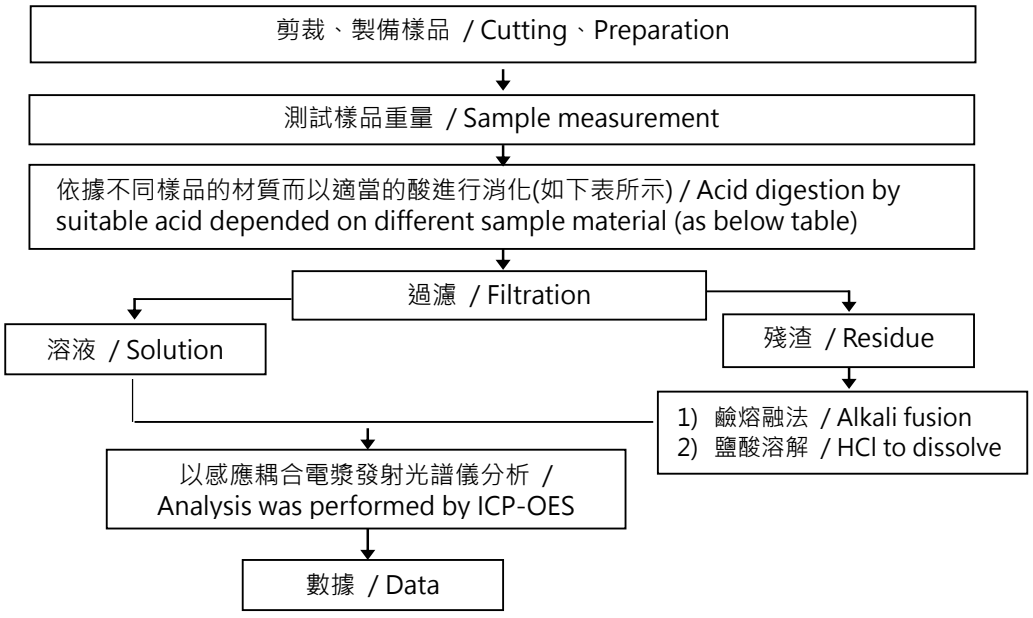
元素以 ICP-OES 分析的消化流程圖

(Flow chart of digestion for the elements analysis performed by ICP-OES)

根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3,HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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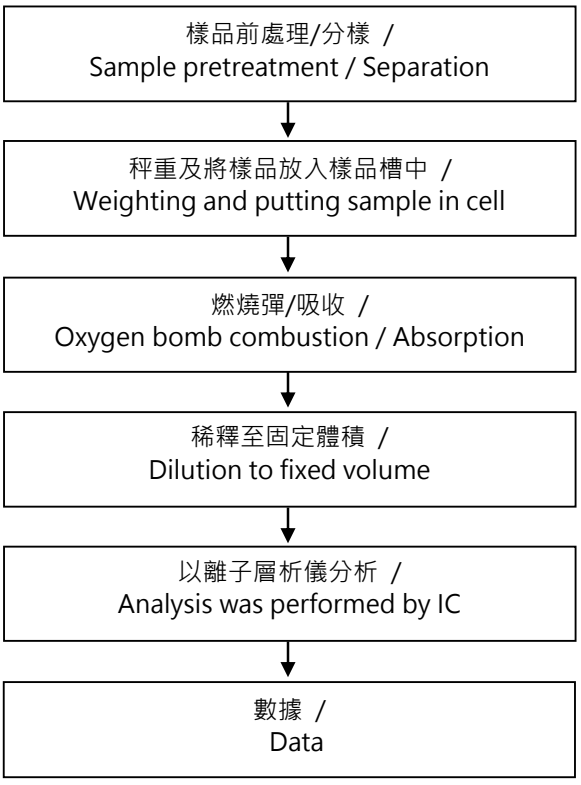
鹵素分析流程圖 / Analytical flow chart - Halogen



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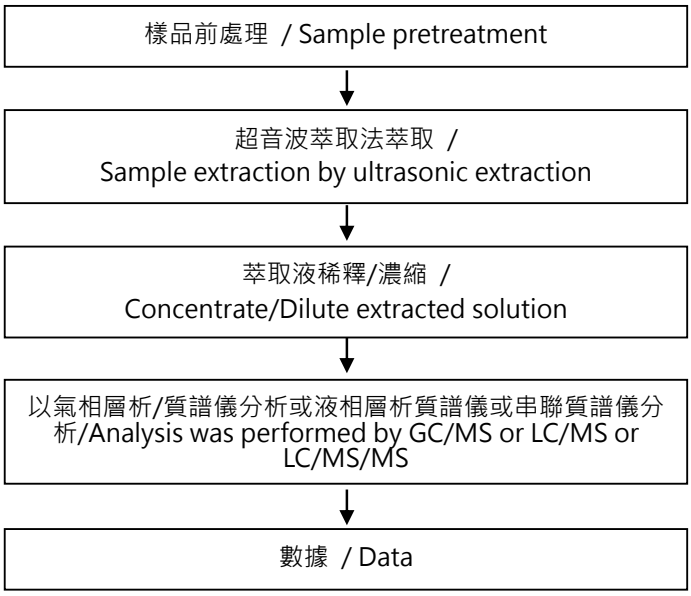
全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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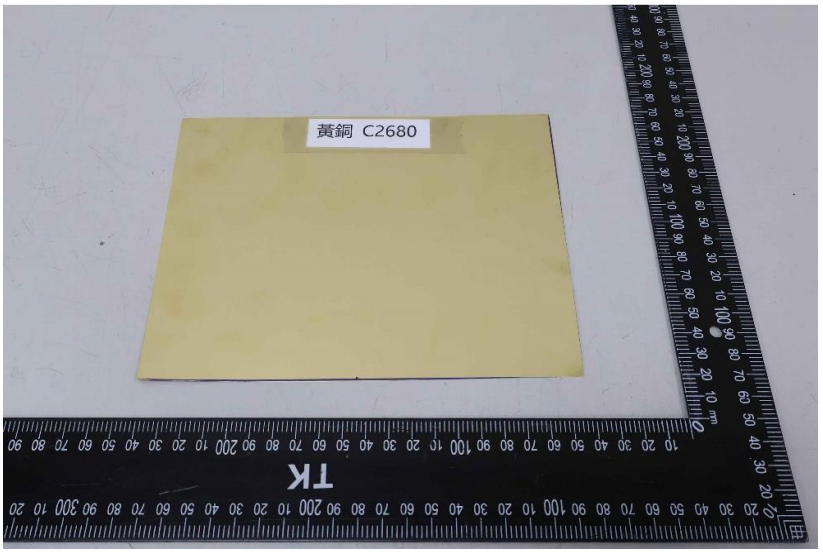
測試報告
Test Report

怡程金屬(深圳)有限公司 (YI CHENG (SHENZHEN) CO., LED)
深圳市龍崗區坪山鎮深圳出口加工區蘭金四路1號 (LIJING RD, SHENZHEN EXPORT PROCESSING ZONE, PINGSHAN REGION, SHENZHEN CHINA)

*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR25705435



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Test Report

No.: CANEC25025900401 **Date:** Oct 28, 2025

Client Name: DONGGUAN JUN JING HARDWARE PRODUCTS CO.,LTD

Client Address: FOURTH INDUSTRIAL ZONE,HUMEN TOWN,DONGGUAN CITY,WENMING ROAD, LANE 15,NO.5

Sample Name: Tin

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

SGS Job No.: SZP25-052741

Sample Receiving Date: Oct 21, 2025

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

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium	Pass
Element(s)	See Results
PFOS, its salts and related compounds,PFOA, its salts	See Results

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

Dongyu Xie
Approved Signatory

Scan to see the report

740EFA24

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0259004-0001.C001	Silvery metal

Remarks:

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

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

Test Item(s)	Limit	Unit(s)	MDL	A1
Lead(Pb)	1000	mg/kg	2	39
Mercury(Hg)	1000	mg/kg	2	ND
Cadmium(Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	μg/cm²	0.10	ND

Notes:

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

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

Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A1
Beryllium(Be)	mg/kg	5	ND

PFOS, its salts and related compounds,PFOA, its salts

Test Method: Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
PFOS, its salts				

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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	mg/kg	0.010	ND
PFOS-related compounds				
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	0.010	ND
Sum of PFOS-related compounds	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND

Notes:

(1) ^=Substances refer to its salts/derivative listed in below table.

Substances Name	**CAS No.**
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-$N(C_2H_5)_3$)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-$N(CH_3)_4$)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9

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N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C_4H_9)$_3$(CH_3))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C_4H_9)$_4$))	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH_4)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$)	76752-82-4
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanote (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9

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Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH($C_4H_{10}N$))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K($H_2O)_2$)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C_5H_5N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-$C_{11}H_{26}N$)	927835-01-6
Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8

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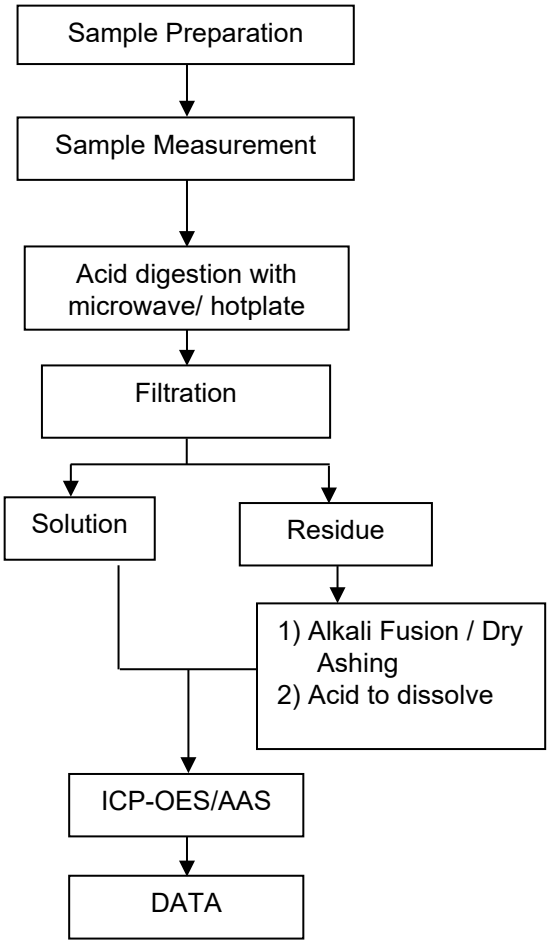
Elements Testing Flow Chart

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



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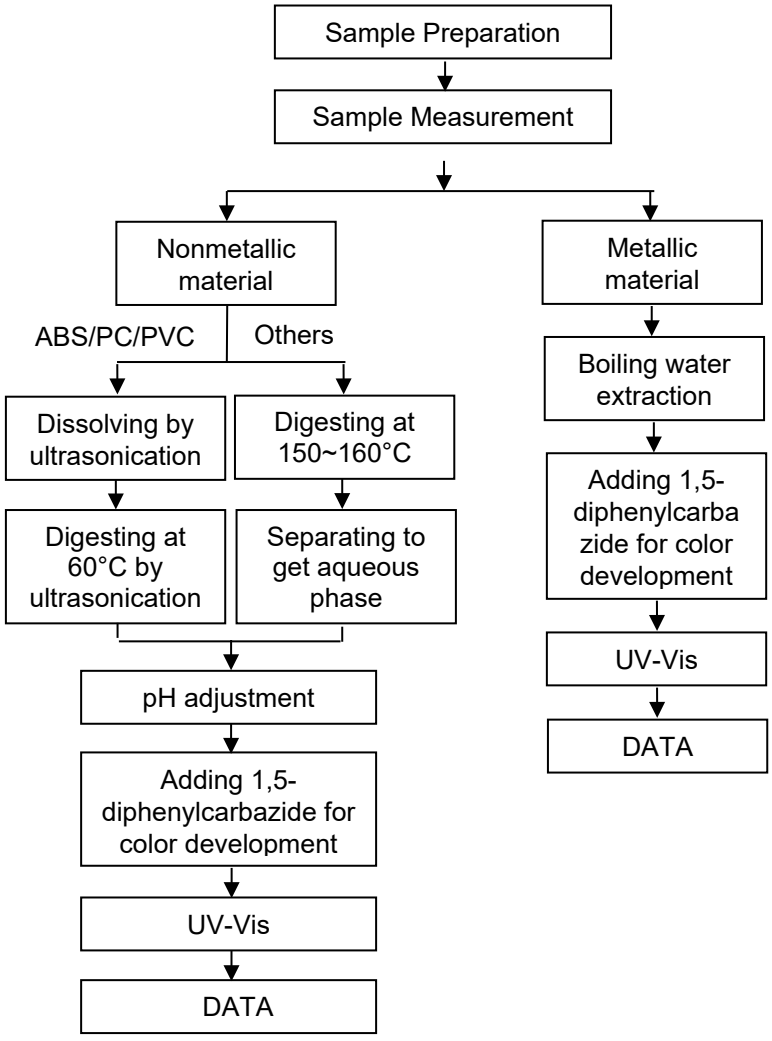
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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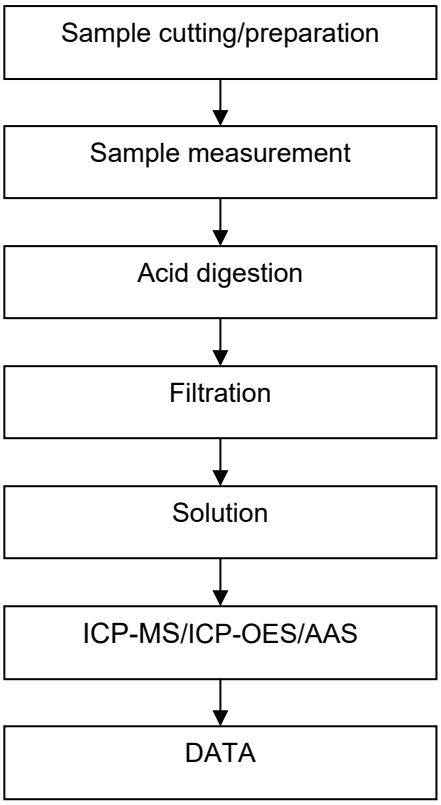
Elements Testing Flow Chart



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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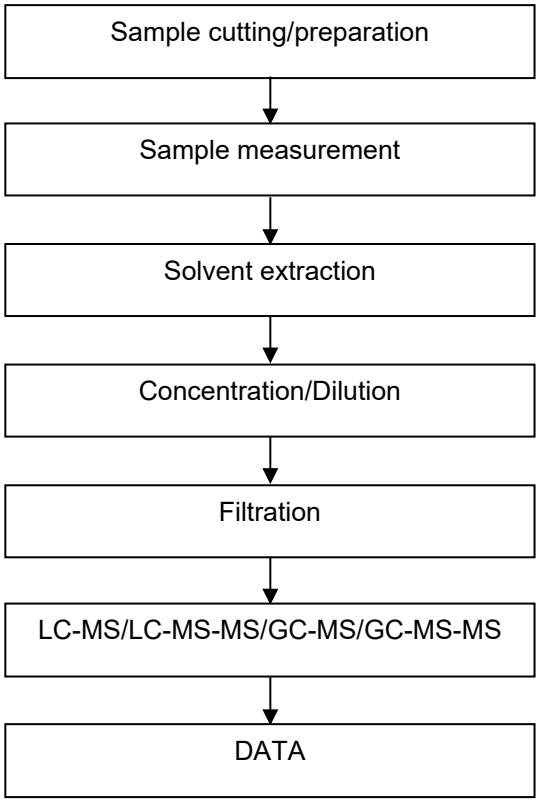
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

PFASs/ PFOS/PFOA Testing Flow Chart



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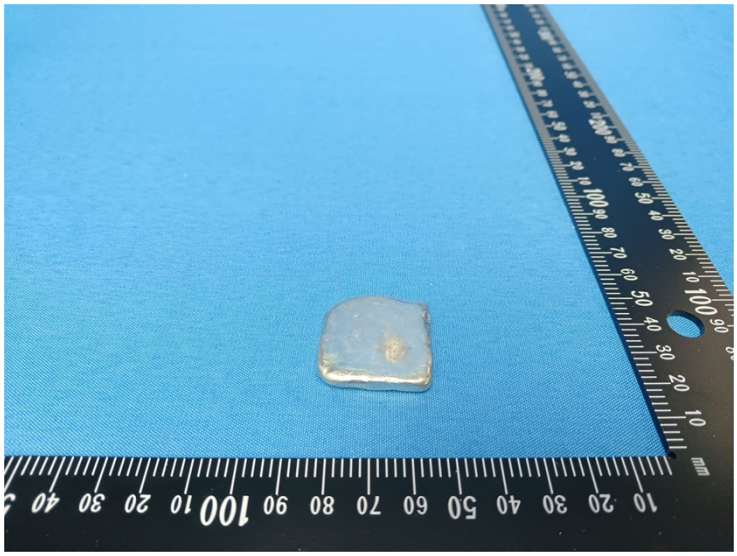
Sample Photo:



CAN25-0259004-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***

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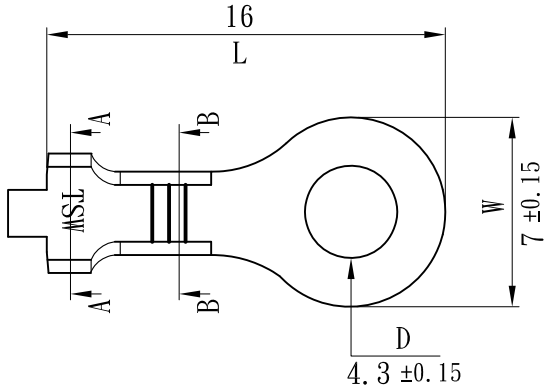
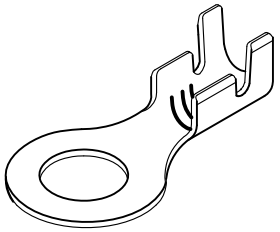
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 sgs.china@sgs.com

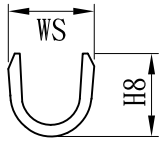
產品成品圖

Terminal(Ring Tongue Shape)

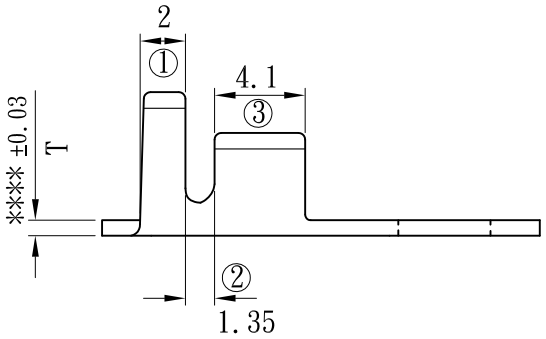
品 名	T	IS	WS	H9	H8	UL	CSA
B40405BS	0.5	4.5	3.1 △7	4.4	3.3	V	V
B40405BS-2							
B40405BS-A	0.8	4.8	4.1	4.6	3.5		
B40405BS-2A							

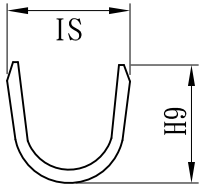






B-B Section





A-A Section

鍍錫編號[Part No.(Tin-plated after press/forming)]:
B40405BS-2,B40405BS-2A

表面處理(Surface treatment):
鍍錫膜厚40 μ"以上
(Tin-plated thickness more than 40 μ")

適用電線(Applicable wire):
AWG# 18~22

線皮外徑(Insulation O.D):
2.9~2.45 mm

包裝數量(Standard packing):
7500 PCS

此產品須符合RoHS指令要求
(The product must conform to the RoHS directive)

威力盛精工股份有限公司
WST WELI SHENG INDUSTRIAL CO., LTD.

UL NO:	CSA NO:	TUV NO:
E 152476	076169_0_000 6223-02	

名稱(Name): 產品規格(Product specifications)

編號(Part No.): B40405BS系列

材質(Material): 黃銅[Brass]

核發單位 (Issued by)	制定單位 (Instituted by)
部品部 2007.10.22 核發	開發課 2007.10.16 制定

核 准 (Approved by)	審 查 (Confirmed by)	制 定 (Drawn by)
韓曜安	蔡幸蕙	陳敏伶

單位(Unit):mm

比例(Scale):Free

第三角法 (Projection):

一般公差 (General tolerance): ±0.3

記號 (Sign)	變更內容 (Change description)	版次 (Edition)	制修訂日期 (Drawn date)
△7	修改WS規格	8	16-Oct-07
△6	圖面格式變更,公差修正	7	4-Jul-07
△5		6	23-Sep-92
		1	20-Oct-98

检测报告
Test Report

报告编号 A2240099290101002ER1
Report No. A2240099290101002ER1

报告抬头公司名称 威力盛電子有限公司
Company Name shown on Report WELI SHENG ELECTRONIC CO., LTD.

地 址 東莞市虎門鎮懷德管理區雅瑤村
Address YA YAO VILLAGE,HUAI DE INDUSTRIAL AREA,HU MENTOWN,DONG GUAN CITY

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	黄銅端子
Sample Name	Brass Terminal
原材料批號	231108-B 和
Material LOT NO	231108-B 和
材料名称	C2680
Material	C2680
生產批號	240201
Product LOT NO	240201
样品接收日期	2024.03.02
Sample Received Date	Mar. 2, 2024
样品检测日期	2024.03.02-2024.03.08
Testing Period	Mar. 2, 2024 to Mar. 8, 2024

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)，铍(Be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), Beryllium(Be) in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).

批 准
Approved by 郑晴涛
技术经理 Technical Manager

日 期
Date 2024.03.08

No. R262621005

华测检测认证集团股份有限公司
Centre Testing International Group Co.,Ltd.
广东省深圳市宝安区新安街道兴东社区华测检测大楼
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

检测报告
Test Report

****

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 62321-7-1:2015	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
铍 Beryllium(Be)	参考US EPA 3050B:1996 & US EPA 6010D:2018 Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES

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
	002		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D. ▼	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
	002		
多溴联苯 Polybrominated Biphenyls (PBBs)*			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)*			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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
	002		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)*			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	002	
铍 Beryllium (Be)	N.D.	2 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	金色金属 Golden metal

备注: **对于检测铅，镉，汞，铍之样品已消解完全。**

-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, Beryllium.**

-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.

注释:

-“*”表示该项目/方法不在CNAS认可范围内。

-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。

-本报告于原报告(报告编号A2240099290101002E)基础上修改了“原材料批號”。本报告替换原报告A2240099290101002E，自本报告签发之日起，原报告A2240099290101002E作废。

Note:

-“*” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

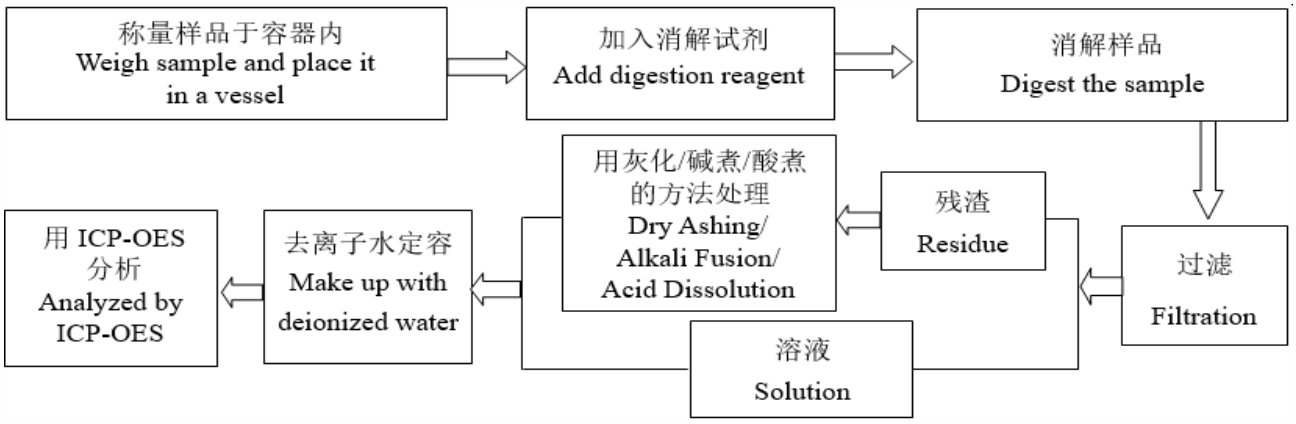
-The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

-This testing report revised “Material LOT NO” based on the original report of No. A2240099290101002E. This testing report displaces the original one which was invalid since the date of this testing report released.

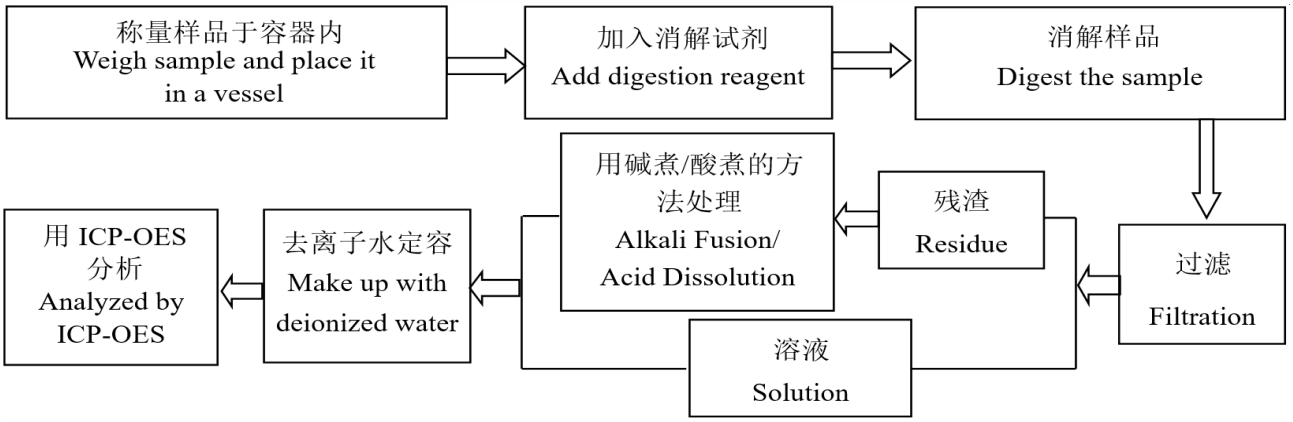
检测报告
Test Report

检测流程 Test Process

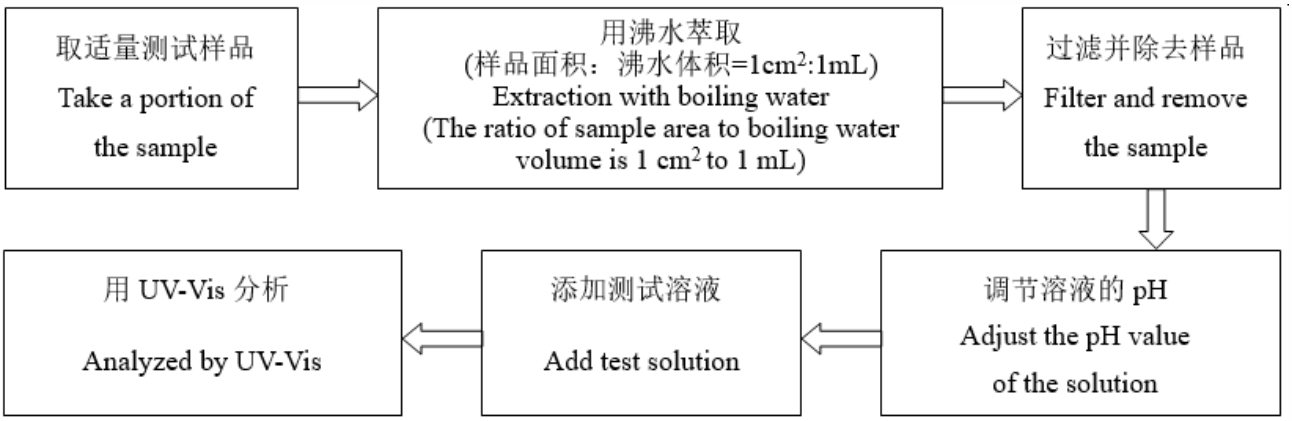
1. 铅(Pb)， 镉(Cd)
Lead (Pb), Cadmium (Cd)



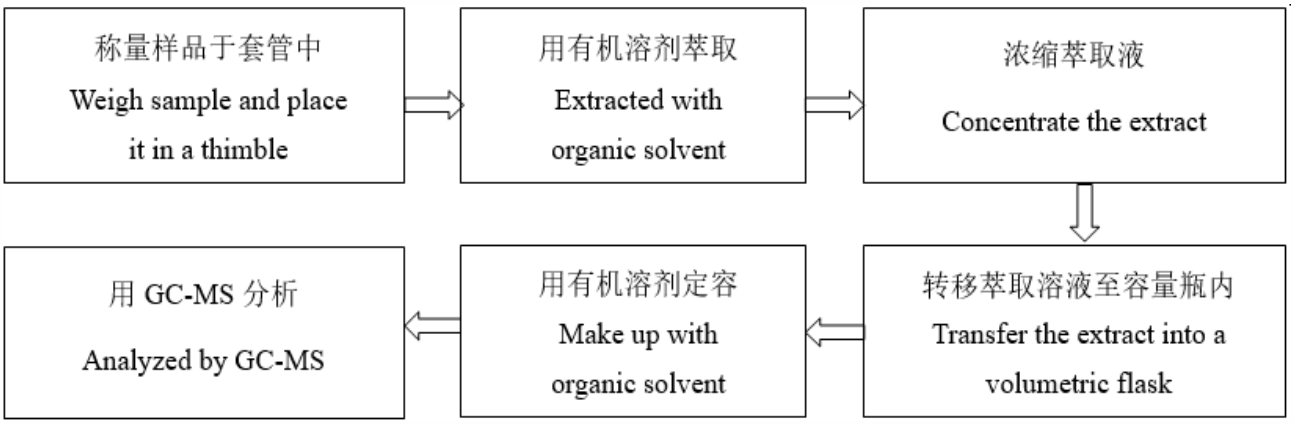
2. 汞(Hg)
Mercury (Hg)



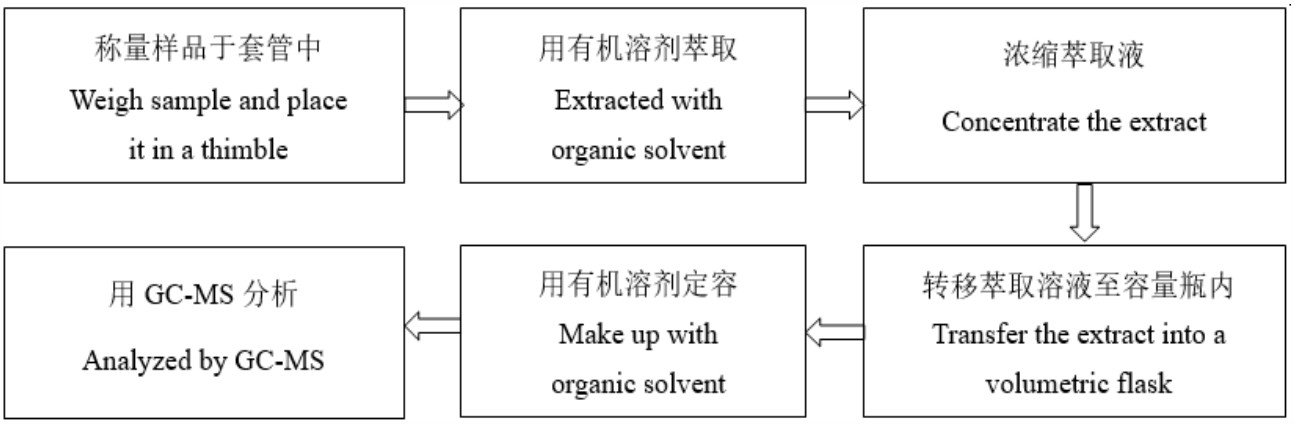
3. 六价铬(Cr(VI))
Hexavalent Chromium (Cr(VI))



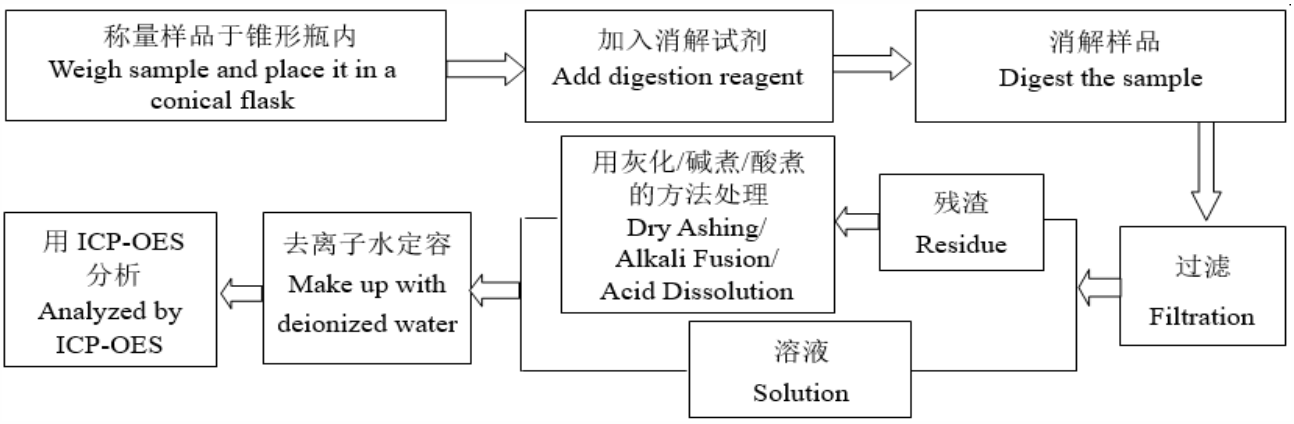
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



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

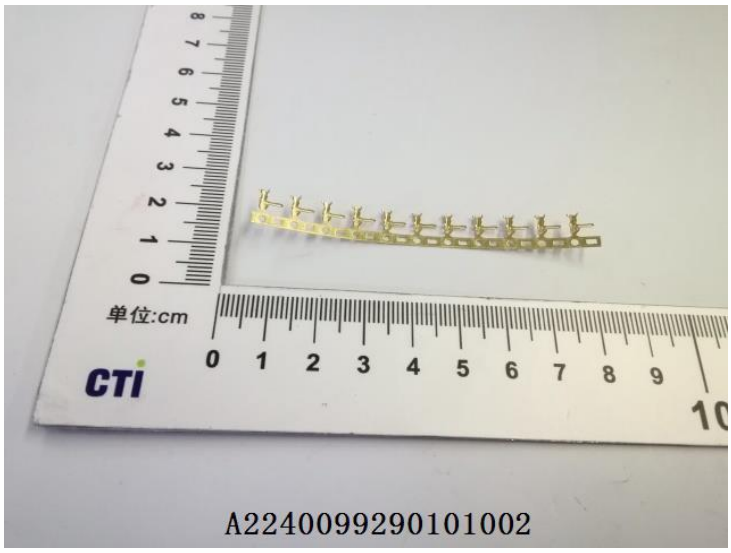


6. 铍(Be)
Beryllium(Be)



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;
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   In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

报告结束
*** End of report ***

深圳长园电子材料有限公司
Shenzhen Changyuan Electronic Material Co., Ltd.

承 认 书
CERTIFICATION

客户名称： **Customer Name:**			
产品名称：无卤环保热收缩套管 **Products Name: Halogen Free Heat Shrinkable Tube**			
产品规格： Φ0.7-Φ60.0 **Products Size: Φ0.7-Φ60.0**			
产品型号： 无卤环保型(125℃ UL CUL) **Products Type: CB-HFT Type (125℃ UL CUL)**			
客 户 签 名 **CUSTOMER**		长 园 电 子 签 名 **CHANGYUAN**	
核 准 **Approved by**	接 收 **Received by**	核 准 **Approved by**	主 办 **Charged by**
日 期 **Date**	日 期 **Date**	日 期 **Date**	日 期 **Date**

地址：广东省深圳市南山区科技工业园科技路30-4栋
Add: Bld # 30-4, Shenzhen Science & Technology Industry Park, Nanshan, Shenzhen, China.

电话：(0755)26553696 传真：(0755)26630674，26632551

Tel: (0755)26553696 Fax: (0755)26630674，26632551

一．特性参数 Specifications

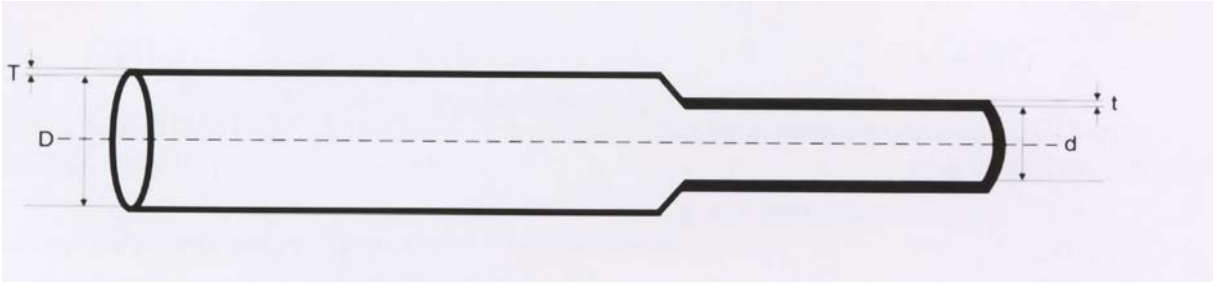
项　　目 Item		无卤环保型(HFT) Non-flammability
收缩温度（℃） Shrink Temperature		90
连续使用温度（℃） Temperature Range		-55-125
径向收缩率（%） Radial Shrinking Ratio		≥50
轴向收缩率（%） Longitudinal Shrinking Ratio		≤±5
抗张强度（MPa） Tensile Strength		≥10.4
断裂伸长率（%） Elongation Ratio		≥200
空气烘箱老化 Aging in circulating-air oven		（158±1.0）℃，7 天 （158±1.0）℃,7days
老化后 After aging	抗张强度（MPa） Tensile Strength	≥7.3
	断裂伸长率（%） Elongation Ratio	≥100
耐电压等级（V） Dielectric Voltage Withstand		600
体积电阻率（Ω·cm） Volume　Resistivity		10^{14}
击穿强度（kV/mm） Dielectric　Strength		≥15
裸铜腐蚀性 Corrosion of Bare Copper		无腐蚀 No corrosion
热冲击 Heat　Shock		无裂纹 No cracking
冷弯曲 Cold　Bend		无裂纹 No cracking
燃烧性 Flammability		VW—1
同心率（%） Concentricity		≥65

二.无卤环保型热缩管成品尺寸规格(HFT Heat-shrinkable Tube Standard Sizes)。

规 格 Size	收缩前尺寸(mm) As Supplied		完全收缩后尺寸(mm) After Recovery		包装长度（米/盘）Packing Length (Meter/Roll)
	内 径(D) Inside diameter	壁厚(T) Wall-thickness	内 径(d) Inside diameter	壁厚(t) Wall-thickness	
Φ0.6	0.8±0.2	0.10±0.05	≤0.4	0.25±0.05	200
Φ0.8	1.3±0.2	0.15±0.05	≤0.45	0.28±0.05	200
Φ1.0	1.5±0.2	0.18±0.05	≤0.6	0.30±0.05	200
Φ1.5	2.0±0.2	0.18±0.05	≤0.8	0.32±0.05	200
Φ2.0	2.5±0.2	0.18±0.05	≤1.00	0.35±0.05	200
Φ2.5	3.0±0.2	0.20±0.05	≤1.25	0.38±0.05	200
Φ3.0	3.5±0.3	0.20±0.05	≤1.5	0.38±0.05	200
Φ3.5	4.0±0.3	0.20±0.05	≤1.75	0.38±0.05	200
Φ4.0	4.5±0.3	0.23±0.05	≤2.0	0.45±0.05	200
Φ4.5	5.0±0.3	0.23±0.05	≤2.25	0.45±0.05	100
Φ5.0	5.5±0.3	0.23±0.05	≤2.5	0.45±0.05	100
Φ6.0	6.5±0.4	0.25±0.05	≤3.0	0.50±0.05	100
Φ6.5	7.0±0.4	0.25±0.05	≤3.0	0.52±0.05	100
Φ7.0	7.5±0.4	0.30±0.08	≤3.5	0.60±0.08	100
Φ8.0	8.5±0.5	0.30±0.08	≤4.0	0.60±0.08	100
Φ9.0	9.5±0.5	0.30±0.08	≤4.5	0.60±0.08	100
Φ10	10.5±0.5	0.30±0.08	≤5.0	0.60±0.08	100
Φ11	11.5±0.5	0.30±0.08	≤5.5	0.60±0.08	100
Φ12	12.5±0.5	0.30±0.08	≤6.0	0.60±0.08	100
Φ13	13.5±0.5	0.36±0.12	≤6.5	0.65±0.12	100
Φ14	14.5±0.5	0.36±0.12	≤7.0	0.65±0.12	100
Φ15	15.5±0.5	0.36±0.12	≤7.5	0.65±0.12	100
Φ16	16.5±0.5	0.36±0.12	≤8.0	0.70±0.12	100
Φ17	17.5±0.5	0.36±0.12	≤8.5	0.70±0.12	100
Φ18	18.7±0.5	0.40±0.15	≤9.0	0.75±0.12	100
Φ20	20.6±0.8	0.40±0.15	≤10.0	0.80±0.15	100
Φ22	22.7±0.8	0.40±0.15	≤11.0	0.80±0.15	50
Φ25	25.5±0.8	0.45±0.15	≤12.5	0.90±0.15	50
Φ28	29.2±0.8	0.45±0.15	≤14.0	0.90±0.15	50
Φ30	31.0±0.8	0.45±0.15	≤15.0	0.90±0.15	50
Φ35	≥35	0.50±0.15	≤19.0	1.00±0.30	50
Φ40	≥40	0.50±0.15	≤21.0	1.00±0.30	50
Φ50	≥50	0.50±0.15	≤27.0	1.00±0.30	50
Φ55	≥55	0.50±0.15	≤28.0	1.00±0.30	50
Φ60	≥60	0.50±0.15	≤31.0	1.00±0.30	50

备注：1.“$\Phi 3.5^{T}$”产品为特殊加工产品(“$\Phi 3.5^{T}$”-Products with special dimensions)；
2.可接受特殊规格产品订单（Other sizes are available upon special order）。

三. 无卤环保型热缩套管工程图(Engineering Picture of CHANGBAO HFT Heat-shrinkable Tube)



备注(Remark)：

1. 无卤环保型产品印字内容(Printing Contents of HFT type tube)：
   E180908 & C 125℃ VW-1 CB-HFT TUBE (Φsize)

单位(Unit)： 毫米(mm)	日期(Date)： 5/12/2005	名称(Name)： CB-HFT 型热收缩套管	图号(No.)： CY/CB-HFT
深圳长园电子材料有限公司 Shenzhen Changyuan Electronic Material Co., Ltd.	绘制(Drawed by):	审核(checked by):	批准(Approved by):

材 质 证 明

我司长葆无卤环保型 **CB-HFT** 套管是一种阻燃型的热收缩套管，组成材料为聚烯烃材料附加适量助剂，具体组成如下，产品铅、镉、汞、六价铬、**PBB**、**PBDE** 等环境管理物质含量符合 **SONY** 及欧盟 **ROHS** 法令环保要求。

原料名称			使用目的	含量	供应商	CAS No.
中文	ENGLISH	分子式				
乙烯醋酸乙烯酯	EVA	（CH_2-CH_2） m-(CH_2-CH-$COOCH_3$)n	主剂	50%	台塑	24937-78-7
氢氧化镁	ATH	$Mg(OH)_2$	阻燃剂	40%	益阳华日	1309-42-8
磷系阻燃剂	MP	$P_mN_nH_xO_y$	阻燃剂	5%	宏泰基	7723-14-0
四季戊四醇酯	Anti-oxide	$C_{73}H_{108}O_{12}$	抗氧剂	1%	商琪	
色母	pigment	色粉+EVA+填充剂	着色剂	4%	富润/毅兴	

深圳长园电子材料有限公司

2005 年 **12** 月 **5** 日

YDPU8.E180908
Tubing, Extruded Insulating Certified for Canada - Component

Tubing, Extruded Insulating Certified for Canada - Component

SHENZHEN CHANGYUAN ELECTRONIC MATERIAL CO LTD

BLDG 30-4

SHENZHEN SCIENCE & INDUSTRY PARK

SHENZHEN, NAN SHAN

GUANGDONG 518057, CHINA

E180908

Cat. No.+	Max V	Max Oper Temp	Shrinkdown Class	Col Recognized	Max Temp Rated Oil Resistance	VW-1 Rated #
Polyolefin heat shrinkable tubing.						
Changbao 102	600	125	II	All	—	Yes
Flexible polyolefin heat shrinkable tubing.						
CB-HFT	600	125	I	Black	—	Yes

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance *,°C	VW-1 Rated #
Teflon (PTFE) non-heat-shrinkable tubing.					
CB-TT	600	200	Natural	—	Yes

Cat. No.	Max V	Max Oper Temp	Col Recognized	Max Temp Rated Oil Resistance * C	VW-1 Rated #
Polyvinyl chloride (PVC) not-heat-shrinkable tubing.					
CB-300	300	105	Black, only	—	Yes

CB-600	600	105	Black, only	—	Yes

*Tubing is considered to comply with the optional oil resistant requirements only if it is so marked.

#Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked.

Marking: Company name, catalog number and temperature rating in degrees C appears on tubing, tags attached to both ends of the tubing or on the shipping spool label or smallest unit container and the Recognized Component Mark for Canada  .

Page Top Notice of Disclaimer Questions?

UL Listed and Classified Products UL Recognized Components Products Certified for Canada

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CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1008399 **Master Contract:** 200197 (LR 116075)

Project: 1194744 **Date Issued:** June 13, 2001

Issued to: **Shenzhen Changbao Special Plastic Products Co., Ltd.**
Bldg No. 30-4
Shenzhen Science and Technology Industry Park
Nansan, Shenzhen, Guangdong
China
Attention: Mr. He Jianghuai

The products listed below are eligible to bear the CSA Mark shown

Issued by: B. Harmer, C.E.I.

Authorized by: B. Rossborough
Operations Manager

PRODUCTS

CLASS 9032 01 - INSULATING DEVICES AND MATERIALS

Flexible Heat-Shrinkable Cross-Linked Polyolefin Tubing, Cat# "CHANGBAO 102", 125°C, 300/600V

APPLICABLE REQUIREMENTS

CSA C22.2 No. 198.1-99 - Extruded insulating Tubing
Electrical Notice 405C - Dual Marking of Wires, Cables, Flexible Cords, Appliance Wiring Material, Liquid-tight Conduit, Flexible Metal Conduit and Tubing

Test Report (SVHC)

No.: CANEC25001454001 **Date:** Jan 26, 2025

Client Name: CHANGYUAN ELECTRONICS GROUP CO.,LTD/CHANGYUAN ELECTRONICS（DONGGUAN）CO., LTD/SHANGHAI CHANGYUAN ELECTRONIC MATERIAL CO.,LTD

Client Address: BID#30-4 SCIENCE& TECHNOLOGY INDUSTRY PARK, NANSHAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE CHINA/BAOPI INDUSTRIAL DISTRICT, FUMIN INDUSTRIAL PARK 2#, DALANG TOWN , DONGGUAN,CHINA/1690 JAHAO ROAD: NANXIANG TOWN: JIADING DISTRICT: SHANGHAI,CHINA

Sample Name: HEAT SHRINKABLE TUBE(BLACK)

Model No.: CB-HFT

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

SGS Job No.: SZP25-002858

Sample Receiving Date: Jan 17, 2025

Testing Period: Jan 17, 2025 ~ Jan 26, 2025

Test Requested: As requested by client, SVHC in Candidate List screening is performed according to:
(i) Two hundred and forty seven (247) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 21, 2025 regarding Regulation (EC) No 1907/2006 concerning the REACH .
As requested by client, Potential SVHC screening is performed according to:
(i) One (1) potential Substances of Very High Concern (SVHC) in the Identification ongoing .
(ii) Four (4) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

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

Summary:

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

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

Violet Shi
Approved Signatory

scan to see the report
56F716A7

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According to the specified scope and evaluation screening, the results of 5 Potential SVHC are ≤ 0.1% (w/w) in the submitted sample.	Pass

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Remark :

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

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

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

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

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

   2.3 Concerning substance and preparation:
   If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:
   - a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
   - a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
   - a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

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

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

Test Sample:

Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Black tube	A1	CAN25-0014540-0001.C001

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

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Result of SVHC in the Candidate List

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

Result of Potential SVHC

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

Notes:

(1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

(2) RL = Reporting Limit (Test data will be shown if it ≥ RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

(3) * The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.
** The result is based on the calculation of selected marker(s) and to the worst-case scenario.
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.

(4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

(5) / = Potential SVHC

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

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Appendix

Full list of tested SVHC:

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

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

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

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

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

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

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Batch	No.	Substance Name	CAS No.	RL (%)
		and its acyl halides (covering any of their individual isomers and combinations thereof)		
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-	-	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
		2-one covering any of the individual isomers and/or combinations thereof (4-MBC)		
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050
XXVI	222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetrizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
XXXI	242	Triphenyl phosphate	115-86-6	0.050
XXXII	243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	0.050
XXXII	244	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
XXXII	245	Octamethyltrisiloxane	107-51-7	0.050
XXXII	246	Perfluamine	338-83-0	0.050
XXXII	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.050
/	248	Resorcinol	108-46-3	0.050

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Batch	No.	Substance Name	CAS No.	RL (%)
/	249	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	250	Decamethyltetrasiloxane	141-62-8	0.050
/	251	Dodecamethylpentasiloxane	141-63-9	0.050
/	252	Hexamethyldisiloxane	107-46-0	0.050

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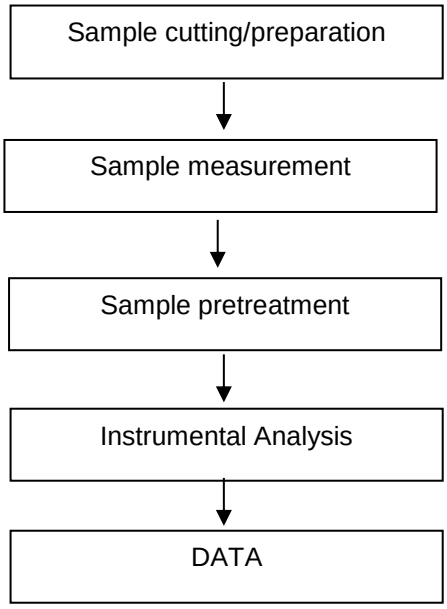
Testing Flow Chart



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