#### **FLWCONN®**

### 承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N):SFP11-113A230-01

品名规格 (PronameSpec) 一代连接器立贴

送样日期 (Delivery Date):2023/04/04

承认日期 (Acknowledge Date): 2023/04/04

Approved No:	客	户		
	Custo	omer		
采 购 部	品 质 部	工程部	确认	
Purchasing Dept	QC Dept	Engineering Dept	Approved By	
深圳	深圳市华联威电子科技有限公司			
SHEN ZHEN SI	HI HUA LIAN WEI EL	ECTRONICS TECHNOLOGY	Y CO; LTD.	
业务部	品 管 部	工 程 部	核 准	
Sales Dept	QC Dept	Engineering Dept	Checked By	
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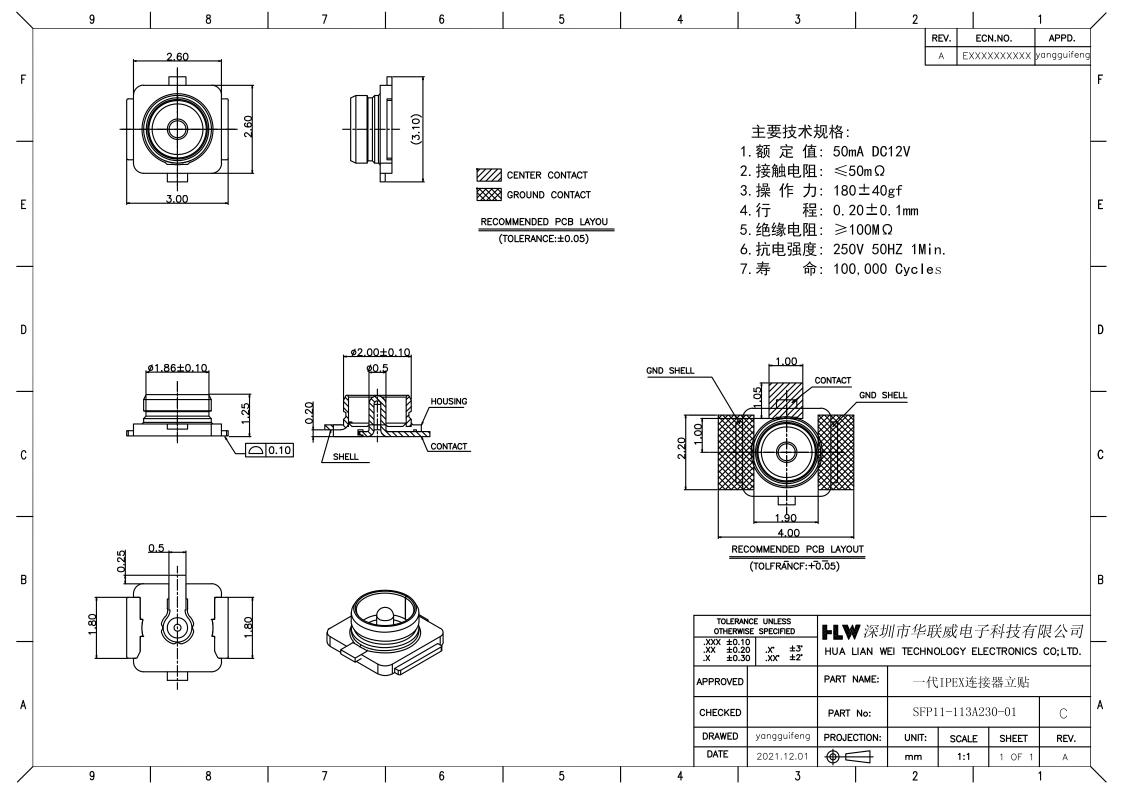


### **FLWCONN**®

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### PRODUCT SPECIFICATION 产品规格书

LANGUAGE 语言

ENGLISH/CHINESE 英/中

#### 1. SCOPE [适用范围]

2. PRODUCT NUMBER AND PART NAME[产品料号及产品名称]

Product Name[产品品名]	Product Number[产品料号]
TF CARD PUSH PUSH CONNECTOR SMT TYPE	C20**-0-***

3. CONSTRUCTION & COMPONENTS[构造&组成零件] Based on construction drawing[依照工程图]

#### 4. RATINGS[标准额定值]

Item[项目]	Standard[规格]	
Rated voltage[额定电压]	30V AC	
Rated current[额定电流]	0. 5A	
Operating temperature[使用温湿度环境]	-25℃~+85℃, 85% RH Max	
Storage temperature[储存温湿度环境]	-40℃~+85℃, 85% RH Max	

#### 5. TEST CONDITION[试验条件]

The test and measurement, unless otherwise specified, shall be carry out at a temperature of 15 to  $35^{\circ}$ C,

Relative humidity of 25 to 85%, and atmospheric of 86 to 106kPa.

However, when any doubt arises on the judgment value it, the test and measurement shall be carry out at a temperature of  $20\pm2^{\circ}$ C, relative humidity of 60 to 70%, and atmospheric pressure of 86 to 106Pa.

[除非特别说明之外,一般试验及测理将于温度15~35℃,相对湿度25~85%,大气压力86~106kPa之条件下完成,但若于上述条件下有任何影响判定值的疑虑,可考量在温度20±2℃,相对湿度60~70%,大气压力86~106kPa之条件下完成试验

Appearance:By looking, there shall not be any abnormality such as deformity, exfoliation of plating, ETC, which can reduce performance, No defect such as cracks scratchs or blemishes. [外观: 经目视观察,外观不可有变形,电镀脱落等会降低其功能的异常现象,也不可有严重破裂,刮伤或污损之缺点.

P/N:C20**- 料号:	-()-***	TITLE: TF CARD PUSH PUSH CONNEC 品名:	CTOR SMT TYPE
SHEET 页码	2/6	REV./版本	A0

# PRODUCT SPECIFICATION 产品规格书

LANGUAGE 语言

ENGLISH/CHINESE 英/中

6. ELECTRICAL EFFICIENCY[电气特性]

NO. 编号	Item/项目	Test Method/试验方法	Requirement /性能要求
6. 1	Contact Resistance [接触阻抗]	Mate connectors, Measure by dry circuit,20mV Max,100mA [公母对插后测试] {EIA-364-23}	contact pin: 100mΩ Max 100mΩ 以下
6. 2	Insulation Resistance [绝缘阻抗]	Unmated connectors, apply 500V DC between adjacent terminal or ground. [公母不对插,对相邻端子施加500V DC电压测试] {EIA-364-21}	100MΩ Min (unmated)
6.3	Withstanding Voltage [耐电压]	Unmated connectors, apply 500V AC for 1 minute between adjacent terminal or ground.  [公母对插前对各端子施加500V AC电压持续1分钟测试.] {EIA-364-20}	No Breakdown Current leakage: 1mA Max. 无击穿 漏电流: 1mA以下

7. MECHANICAL EFFICLENCY[机械特性]

7. 1	Mating force [插入力]	Measure mating force necessary to mate connector.  Operation speed:25mm/minute [测试一组公母对插之连接器所需之插入力,测试速度25mm/分钟] {EIA-364-13}		~1.2 Kgf (11.76 i)
7. 2	Card Ejection Force [退卡弹力]	EIA 364-13 Shall be measured with TENSION GAUGE or TENSION TESTER Measure force necessary to mate samples at maximum rate of 25.4mm per minute		~1.2 Kgf (11.76
7. 3	Contact retention [端子保持力]	Apply axial pull out force on the terminal assembled in the housing Operation speed:25mm/minute [测试将端子由本体中拉出之保持力,测试速度25mm/分钟]		5kgf} Min. 5kgf} 以上
7.4	Durability [耐久性]	Mated and unmated connectors up to 10000 cycles at a rate of 400~600 cycles per hour [连接器在400~600次/小时的插拔速度下必须承受10000次的插拔循环]	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下

P/N: C20**-0-**** 料号:		TITLE: TF CARD PUSH PUSH CONNEC		
SHEET 而码	3/6	REV./版本	AO	

#### PRODUCT SPECIFICATION 产品规格书

LANGUAGE 语言

ENGLISH/CHINESE 英/中

NO. 编号	Item/项目	Test Method/试验方法	Requi /性食	rement と要求
		Temperature:60±2°C, Relative Humidity:90% Duration:96 hours	Appearance 外 观	NO damage 不可破坏
8. 1	Humidity Test [耐湿性测试]	Upon completion of the test, specimens shall be conditioned at ambient room conditions for 1~2 hours [温度在60±2℃,相对湿度90%,持续96小时,经试验后,连接器于室温中放置1~2小时再测试其它值]	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下
		「全価平成直1~2小時円機成英七直」 {EIA-364-31 Test condition A method Ⅲ}	Insulation Resistance 绝缘阻抗	100MΩ Min. 100MΩ以上
0.0	Salt mist spray	Salt concentration:5%; Temperature:35±2°C; Testing time:8 hours After salt is removed by running water and a drop is	Appearance 外 观	NO damage 不可破坏
8. 2		removed, it is measured. [盐水比重: 5%, 温度: 35±2℃, 试验时间72小时, 试验后用清水将残留盐份清洗, 并将水滴清除后, 方可再测试其它值] {EIA-364-26A, condition A}	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下
		Amplitude:1.52mm. Sweep time:10~55~10Hz	Appearance 外观	NO damage 不可破坏
8. 3	Vibration (Low frequency) [振动测试] (低周波)	Duration:2 hours in each X,Y,Z azes. (total of 6 hours) Electrical load:10mA [振幅: 1.52mm,振动频率: 10~55~10Hz,振动时间: X、Y、Z	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下
		轴各2小时共计6小时,载入电流: 10mA] {EIA-364-28 Test condition V test letter A}	Discontinuity 瞬断	1μ Sec. Max
8. 4	Dropping Test [跌落测试]	Status:One carton of products Dropping plane:The wood block(or the coordinate condition) Height:1.5m Directions:Each of X,Y,and Z-axes directions No of times: each two times Dropping way:dropped normally [状态:运输包装状态,落下平面:坚固地面,落下高度:1.5m,落下方向:X-Y-Z,次数:各2次,落下方法:自由落下]	Appearance 外 观	NO damage 不可破坏
8. 5	Thermal shock	Mated connentor with dummy card and perform the test as follows.  25 cycle of: A)-25℃ for 30 minutes;  B)+85℃ for 30 minutes	Appearance 外 观	NO damage 不可破坏
o. 0	[冷热冲击测试] [将连接器与仿真卡对插后,做25个循环,每个循环条件为: -25 ℃,30分钟; +85℃,30分钟] {EIA-364-32, Condition I}	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下	
	Heat test	Mated connentor with dummy card, test on 85℃ for 96 hours. After testing it shall be left alone for 1 to 2 hours in room ambient.	Appearance 外 观	NO damage 不可破坏
8.6	[耐热性测试] [将连接器与仿真卡对插后,测试条件:温度85℃,时间96小时;结束后将其放置于室温下1~2小时再测试其他值]		Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下

P/N: C20**-0-****  TITLE: TF CARD PUSH PUSH CONNECTOR SMT TYPE 品名:		ECTOR SMT TYPE	
SHEET 市码	4/6	REV./版本	AO

# PRODUCT SPECIFICATION 产品规格书

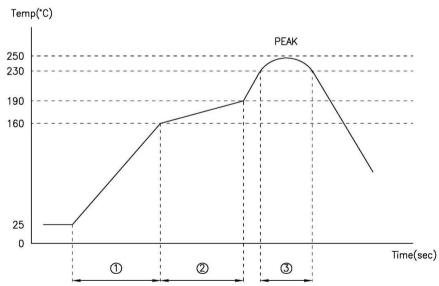
LANGUAGE 语言

ENGLISH/CHINESE 英/中

8. ENVIRONMENTAL EFFICIENCY AND OTHERS [环境及其它特性]

NO. 编号	Item/项目	Test Method/试验方法		rement と要求
Cold tost		Mated connentor with dummy card, test on -40℃ for 96 hours. After testing it shall be left alone for 1 to 2	Appearance 外观	NO damage 不可破坏
8. 7	[耐寒性测试]	hours in room ambient. [将连接器与仿真卡对插后,测试条件:温度-25℃℃,时间96小时;结束后将其放置于室温下1~2小时再测试其他值]	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下
8.8	Solderability [焊锡性测试]	Soldering time:3 second Max. (Use flux) Solder Temperature:255±2℃ [焊锡时间:5秒以下(使用助焊剂),焊锡温度:255±2℃ {BIA-364-52}		soder area 只最小95%]
		Soldering Iron method Using the soldering iron, and the cored solder wire. It is applied to termination for 3+1/-0s at 350±5℃. [手工焊接] [使用烙铁和芯线,焊锡温度为255±5℃,时间为3+1/-0s]	Appearance 外 观	NO damage 不可破坏
8. 9	Resistance to Soldering Heat [焊锡耐热性]	IR-reflow Soldering method Test connector on PCB. Pre-heat: 160~190℃; 120seconds Heat: 230℃ Min; 40seconds Heat Peak: 250℃ Max [回流焊接] [组装在PCB上做测试, 预热: 160~190℃; 120秒; 加热: 230℃以上;40秒 最高温度: 250℃以下]	Appearance 外 观	NO damage 不可破坏

#### Temperature Profile IR-Reflow Soldering:



Pre-Heating Zone ①; Temperature rise 1~4°C/sec Pre-Heating Zone ②;160~190°C 120sec Soldering Zone ③; Forty seconds over 230°C PEAK temperature; Below 250°C

- ① 预热部分: 升温1~4℃/sec
- ② 预热部分: 160~190℃ 120sec以内
- ③ 焊锡加热部分: 230℃以上 40sec以内

PEAK温度: 250℃以下

P/N: C20** 料号:	×-0-***	TITLE: TF CARD PUSH PUSH CONNEC 品名:	CTOR SMT TYPE
SHEET 页码	5/6	REV. /版本	AO

# PRODUCT SPECIFICATION 产品规格书

LANGUAGE 语言

ENGLISH/CHINESE 英/中

#### 9. TEST SEQUENCES[测试顺序]

	Test or Examination 测试/检查	Test Group 测试组别										
NO.	Item/项目	A	В	С	D	Е	F	G	Н	I	J	K
XX	Examination of product/产品确认	1	1	1, 6	1, 5	1, 5	1, 3	1, 5	1, 5	1, 5	1	1, 3
6. 1	Contact Resistance/接触阻抗	2	2, 6	2, 4	2, 4	2, 4		2, 4	2, 4	2, 4		
6. 2	6.2 Insuation Resistance/绝缘阻抗			5								
6. 3	3 Withstanding Voltage/耐电压											
7. 1	Insertion force/插入力		3									
7. 2	Push in strength/弹簧弹力		4									
7. 3	Contact retention/端子保持力	5										
7. 4	Durability/耐久性		5									
8. 1	Humidity Test/耐湿性测试			3								
8. 2	Salt mist spray/盐水喷雾测试				3							
8.3	Vibration/振动测试					3						
8. 4	Dropping Test/跌落测试						2					
8.5	Thermal shock/冷热冲击测试							3				
8.6	Heat test/耐热性测试								3			
8. 7	Cold test/耐寒性测试									3		
8.8	Solderability/焊锡性测试										2	
8. 9	8.9 Resistance to Soldering Heat 焊锡耐热性											2

P/N: C20** 料号:	*-()-***	TITLE: TF CARD PUSH PUSH CONNEC	CTOR SMT TYPE
SHEET 页码	6/6	REV. /版本	A0



SHENZHENHUALIANWEIELECTRONICS CO.

### 測試報告

TEST REPORT

產品名稱 Part	一代连持	接器立贴		试日期 f Testing	2023. 2023.		報告編號 Report NO.		MD20230404-01		
產品型號 Part	SFP11-113A	230-01		樣品數量 Quantity		5PCS		測試環境 Date of Testing		温度 Temp:-55℃~85℃ 相對濕度R.H.:90%~95%	
一. 電性測	訓試 ELECTR	ICAL TEST									
序 號 NO	測試項 目 Testing	測試條件 Testing Conditions	測試設備 Testing Equipments	規格 SPEC		測試記	錄Testin	g Result		判定 Judge	
NO	Item	Conditions			1	2	3	4	5	OK	NG
1	接觸阻抗	40mΩ Ohm	直流低電阻 測試儀	40m <b>Ω</b> hm Max	26. 2m Ohm Ω	22.8m OhmΩ	25.5m OhmΩ	21.0m OhmΩ	26. 53m Ohm Ω	V	
2	   絕緣阻抗 	1000 M Ohm VDC	絕緣電阻 測試儀	1000 MΩhm Min	632	612	710	639	675	V	
3	耐壓測試	500V AC / 0.5 mA 1分钟	耐壓測試儀	No damaged	OK	OK	OK	OK	OK	V	
二. 机械物	特性測試 MEG	CHANICAL TEST									
序 號 NO	測試項 目 Testing	測試條件 Testing Conditions	測試設備 Testing Equipments	規格 SPEC		測試記錄Testing Result				判定 Judge	
110	Item	Conditions			1	2	3	4	5	OK	NG
4	插入力	每分钟25±3mm 的速度	插拔力計	40 Max.	36N	35N	32N	30N	29N	V	
5	拔出力	每分钟25±3mm 的速度	插拔力計	1N Min	1. 2N	1.4N	1.5N	1. 1N	1.3N	V	
6	耐久性	测试速度:每分 钟5个 循环,测试次 数:5000次循 环最少	插拔力計	不得发生物理 损坏。	634	517	720	632	641	V	
三. 环境物	序性测试 EN	VIRONMENTAL TES	Γ								
序 號 NO	測試項 目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipments	規格 SPEC	, ,	測試記錄Testing Result				判定 Judge	
7	冷热冲击	55+/-3℃(30 分钟),+85+/- 2℃(30 分钟) 为一个中期的 环境中,重复 10 个周期	高低温试验 箱	不得发生物理 损坏。	52	54	3 55	53	5 52	OK V	NG

8	湿温循环	温度25 <sup>~</sup> 65℃, 湿90 <sup>~</sup> 95%, 持 续时间:4qw	湿温循环机	最大接触阻抗 30mΩ	19	16	15	15	16	V	
9	盐雾试验	温度:35±2℃ 12小时	盐雾试验箱	最大接触阻抗 50mΩ	41	36	32	35	34	V	
10	可焊性	焊锡温度: 260±5℃	熔锡炉	沾锡面积达 90%以上	92	93	95	96	95	V	
11	焊接耐热 试验	260±5℃ 10秒	工业烘烤箱	不得发生物理 损坏	263	264	266	265	263	V	
TEST	綜合判定 TEST								-		

### **FLWCONN**®

## 深圳市华联威电子科技有限公司

### 检验报告

■首	首件检验 口入库检验 口出货检验 口客				退检验 口退料检验 口其他						2023年	<b>丰4月04日</b>	版次:A1	
料号	SFP11-113A2	30-01	制令	单号	,	/	送检	単位	I	二程部	首件	制作者	装配	
品名	一代连接器	立贴	客户	代号	/		<u>批</u> 数	量 量 5		/ SPCS	送检时间 确认时间		1	
	抽样标准		■単次  □双次			車抽棒		AQL		八郎][申] MAJ:0.40	MIN:0.65			
	MIL-STD-105E			<u> </u>	<u>人</u>		減量			ACC/REJ		/	/	
不		CRI ( /		MA.		<u> </u>	MIN		/	)		早率(%)	/	
NO.	检验项目	检测	,	检	验记			品管		CRI	MAJ	MIN	备注	
140.	单位:MM/G	仪器	1	2	3	4	5	AC	RE	Cita	1417 13	IVIIIV		
	2.60±0.20	D	2.63	2.61	2.63	2.62	2.63	√						
	2.60±0.20	D	2.6	2.61	2.63	2.62	2.64	√						
	3.00±0.20	D	3.02	3.04	3.02	3.03	3.02	$\sqrt{}$						
	1.86±0.10	D	1.86	1.85	1.84	1.86	1.85	√						
	1.25±0.20	D	1.26	1.24	1.25	1.24	1.25	$\sqrt{}$						
	3.10±0.20	D	3.14	3.12	3.14	3.13	3.14	V						
	0.5±0.20	D	0.52	0.51	0.53	0.52	0.53	√						
	0.25±0.20	D	0.26	0.24	0.25	0.24	0.25	√						
	1.80±0.20	D	1.82	1.83	1.84	1.81	1.82	<b>√</b>						
	1.80±0.20	D	1.79	1.82	1.78	1.79	1.81	V						
4∆π∆4	\	И. \	<b>-</b> 	1 7.47 \	П // ·	<b>丞</b> 11 47、	,	<b>+</b> ₩ □	口甘	· /				
	金验依据: ■<<工程图纸>> □<<检验规范>> □<<承认书>> □样品 □其它  检测仪器:A游标卡尺 B千分尺 C厚薄仪 D投影镜 E放大镜 F显微镜 G锡炉 H插拔力器 I间位尺 J其它													
品保		ガヘ・日子海	以 <b>D</b> 1又	.京/ T.R. I	ルメノヘで	1 业小以	况 (17勿)	y 11 <u>1</u> 1	±1火ノJ・	66 1月114人	、,共仁	1		
нн ИГУ	核 准	たi	 込锋		审	核		/		检验		/F	3 茶	
APP			<u>.</u>		CI	HK		,	INSPBY			但芬 BY		

保存期限:三年 保存部门: 品保部 QR-M-003

### **FLWCONN®** 深圳市华联威电子科技有限公司 电镀报告表

品名:一代连接器立贴(外壳)	版次:A.0	
电镀规格:Ni:50u″MIN	日期:2023/3/15	页次:1/1

厂商:金和源

测试设备:CMI X-射线膜厚测试仪

#### 1、表层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	50u"min	56. 3u"	OK	2023/3/15	14:35:25
2	50u"min	53. 8u″	OK	2023/3/15	14:35:27
3	50u"min	54. 4u"	OK	2023/3/15	14:35:29
4	50u"min	52. 5u″	OK	2023/3/15	14:35:31

核准:欠必锋 审核: 李娟 检验员: 但芬

### **FLWCONN®**

### 深圳市华联威电子科技有限公司

### 盐水喷雾实验报告

试验方法	盐水喷雾腐蚀试验法	参考资料	MIL-STD-1345			
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL OID 1010			
客户		试验起始日期	2023年4月03日 08:00 时起			
谷广		DATE	2023年4月03日 20:00 时止			
样品名称	一代连接器立贴	试验数量	5PCS			
P/N SFP11-113A230-01		QTY				

试验条件 (TEST CONDDITION)

- 1、盐水溶解 (SALT SOLUTION: 浓度50±10g/L, PH值6.5-7.2.
- 2、试验室温度 (TEMP. IT THE SPRAY DHAMBR):35±1℃.
- 3、盐水桶温度 (TEMP. OF SALE SOL'N TANK): 35±1℃.
- 4、 压力桶温度 (TEMP.OF SAR SUPPLIERY): 47±1℃.
- 5、 试验室相对湿度(R.H IN THE CHAMBER ) 85%.
- 6、 压缩空气压力(COMPRESSED AIR PRESSURE): 1.00±0.01Kg/cm².
- 7、 样品放置位置(SPECIMEN SUPPORTED ANGLE ): 尼龙绳吊挂70°-90°.
- 8、 喷雾收集量(COLLECT RATE OF SALT SOL′N)1-2mL/(8 cm²hr).
- 9、盐雾测试时间: 12小时 (H)

判定方法(ADFUSGD METHOD )

ecimen at 20	of green corrosion of the or green corrosion	products are acceptable)
样品序号	试验后现象	判定
件吅/了 5	PHENOMENON AFTER TEST	COMMENT
1	无蓝、绿色腐蚀物之现象	OK
2	无蓝、绿色腐蚀物之现象	OK
3	无蓝、绿色腐蚀物之现象	OK
4	无蓝、绿色腐蚀物之现象	OK
5	无蓝、绿色腐蚀物之现象	OK

核准:欠必锋 审核: 李娟 试验员:但芬

# 钜鼎銅材廠檢驗報告單

公司名稱 Customer	20 10 10 10 10 10 10 10 10 10 10 10 10 10	钜鼎銅材廠	檢驗報告單		重量 Weight(kg)	1078		日期 ate	2021/11/23	
品名	2 12 12 12	標	[准			寸		態	銅卷編號	
Article		Stand	ard No		Dime	Tenper		Coil No		
C2680	v.	JISH3100:2017			0.18	*400	E	EH	1021	-C-08
				化學	式分Chemical Con	mpositions(%)				
元素 Element	Cu %	Zn%	Pb%	Fe%	\	\	1	\	化學成分	雜質
規範 Spec	64.0-68.0	餘量	<0.05	<0.05	\	1	\	\	合格	合格
實測 Actual	64.32	餘量	0.0036	0.0136	\	1	١	\	合格	合格
				機械性	質子Mechanical	Properties				
項目	結晶粒度	硬度	抗拉強度	伸長度	導電率	彎曲試驗	表面	粗度	彎	曲度
Item	Grain Size	Hardness	TensionStrength	Elongation	Electrical Conduc	Bending Test	Surface F	Roughness		mber
	Mm	Hv	Mpa	%	%IACS	180	Ra(	u m)	m	m\n
規範MAX Spec	\	170-190	490-610	\	\	\		\	1	
實測 Actual	\	178	574	5	\	١		\		\ - ·

品質部

聯系電話:0755-28111847 傳真: 0755-28110077 送货专用量

# 东莞市海嵘兴塑胶有限公司

# LCP材质分析报告

品名	比例	用 途
杜邦LCP树脂	0. 68	构成材料主要成份
抗氧剂	0.003	抗氧化
日本住友TAP	0.002	润滑及增加流动性
人洋安定剂	0. 005	稳定机械性能,方便重复使用
玻纤	0, 30	增强
色柯	0.01	<b>着色</b>

注:以上数据真实可靠,但并非绝对直,并不做任何商业依据。





**Test Report** No. CANEC2222380702 Date: 26 Oct 2022 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD Client Name:

Client Address: 101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN

SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Sample Name: C2680 Copper shell Model No.: C2680 shell after plating

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

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

SGS Job No.: CP22-057100 - GZ

Date of Sample Received: 20 Oct 2022

Testing Period: 20 Oct 2022 - 26 Oct 2022

Test Requested: Selected 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).

Result Summary:

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

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









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#### **Test Report** No. CANEC2222380702 Date: 26 Oct 2022 Page 2 of 4

Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-223807.002 Silver-grey plated metal

#### Remarks:

(1) 1 mg/kg = 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+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	37
Mercury (Hg)	1000	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 CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination

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

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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No. CANEC2222380702

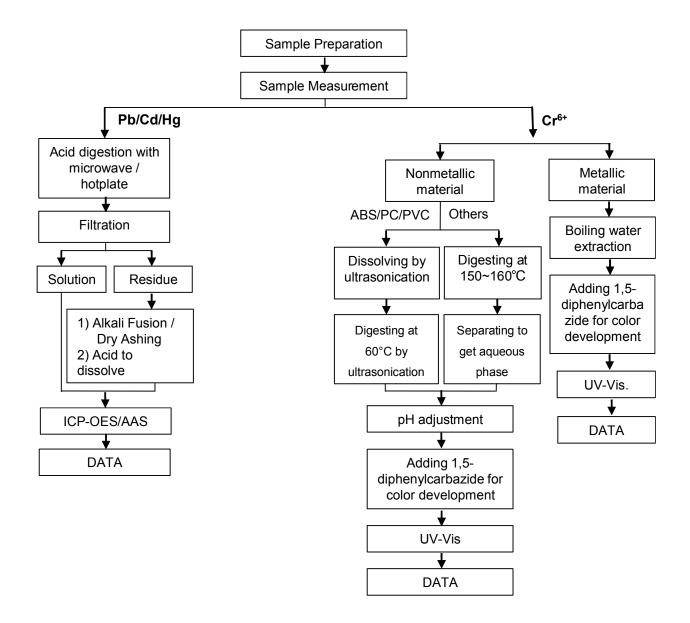
Date: 26 Oct 2022

Page 3 of 4

#### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+ Testing Flow Chart

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





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No. CANEC2222380702

Page 4 of 4

Date: 26 Oct 2022

Sample photo:



SGS authenticate the photo on original report only

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



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**Test Report** No. CANEC2222380707 Date: 26 Oct 2022 Page 1 of 6

Client Name: SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

Client Address: 101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN

SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Sample Name: LCP plastic natural color

Model No.: LCP Plastic

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

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

SGS Job No. : CP22-057100 - GZ

Date of Sample Received: 20 Oct 2022

Testing Period: 20 Oct 2022 - 26 Oct 2022

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

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

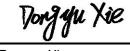
Test Result(s): Please refer to next page(s).

Result Summary:

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

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Dongyu Xie Approved Signatory





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**Test Report** No. CANEC2222380707 Date: 26 Oct 2022 Page 2 of 6

Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN22-223807.007 Beige plastic

#### Remarks:

(1) 1 mg/kg = 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	12
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC22223807	07	Date: 2	6 Oct 2022	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

#### Notes:

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

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



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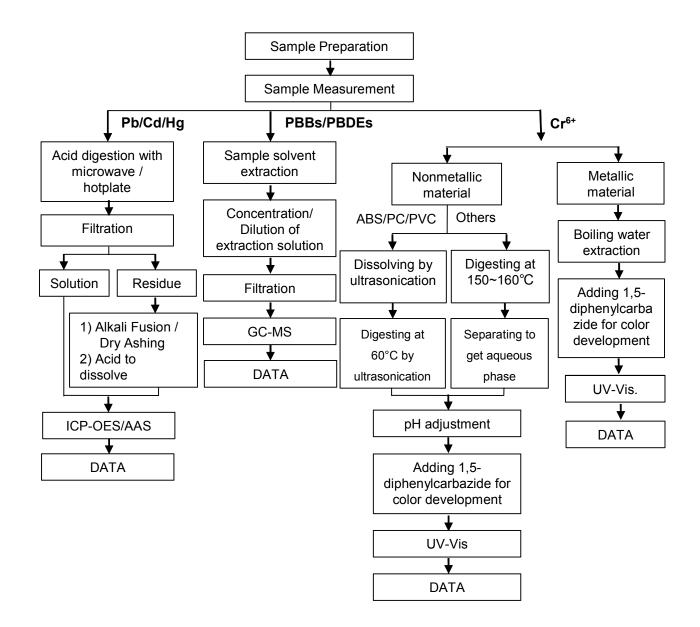
Date: 26 Oct 2022

Page 4 of 6

#### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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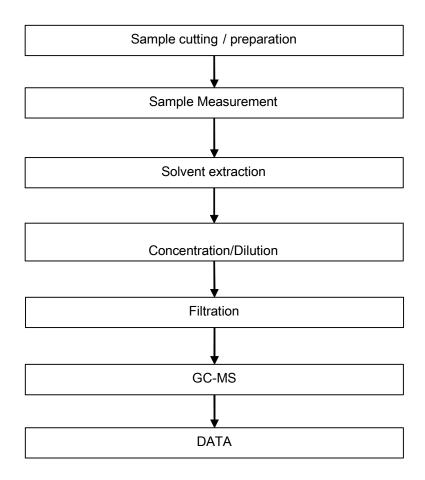
No. CANEC2222380707

Date: 26 Oct 2022

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#### **ATTACHMENTS**

#### **Phthalates Testing Flow Chart**





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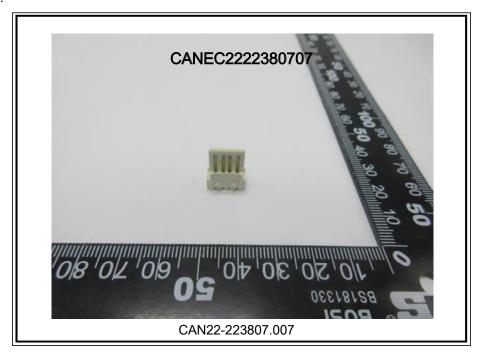


No. CANEC2222380707

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Date: 26 Oct 2022

Sample photo:



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**Test Report** No. CANEC2218227001 Date: 30 Aug 2022 Page 1 of 8

Client Name: SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name: Nickel(Ni)

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

------

SGS Job No. : CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period: 25 Aug 2022 - 30 Aug 2022

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

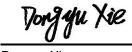
Test Method(s): Please refer to next page(s).

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

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results

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



Dongyu Xie Approved Signatory





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**Test Report** No. CANEC2218227001 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description

> SN1 CAN22-182270.001 Silver-gray plated metal

#### Remarks:

(1) 1 mg/kg = 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	49
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC22182270	01	Date: 3	30 Aug 2022	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

#### Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

#### Notes:



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No. CANEC2218227001 Date: 30 Aug 2022 Page 4 of 8

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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



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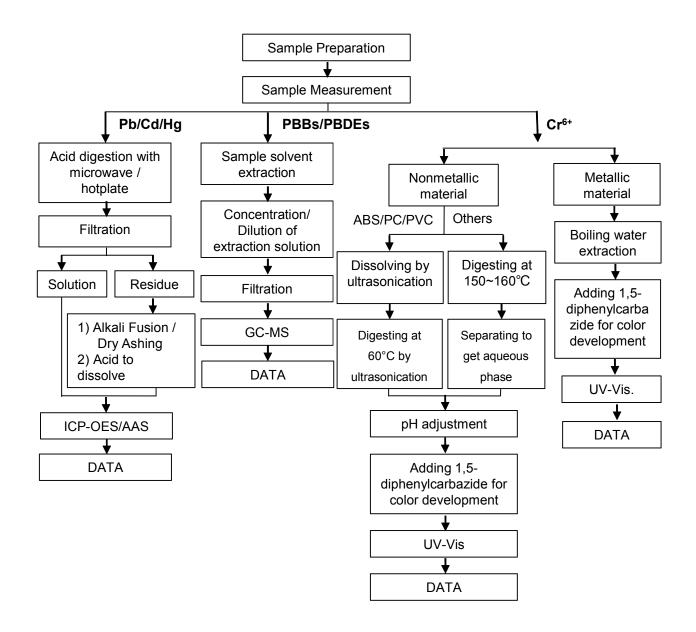
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#### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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





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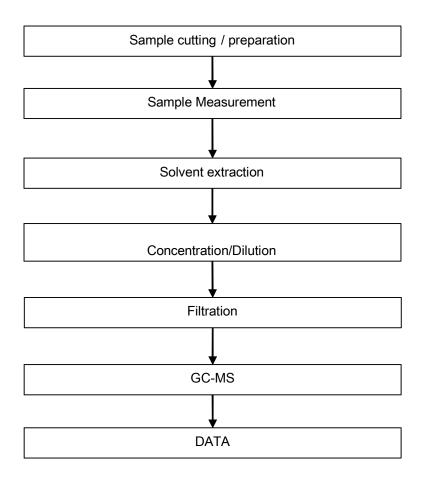
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#### Phthalates Testing Flow Chart





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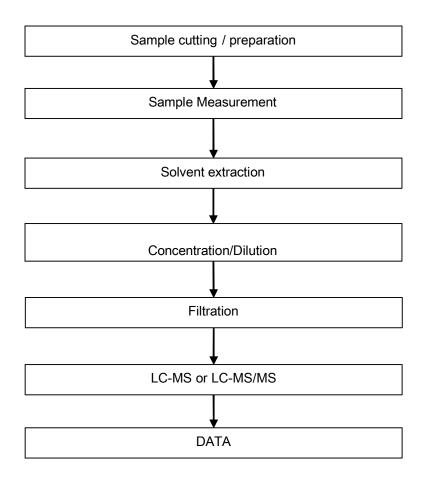
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#### PFOA / PFOS Testing Flow Chart





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No. CANEC2218227001

Date: 30 Aug 2022 Page 8 of 8

Sample photo:



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**Test Report** No. CANEC2218227002 Date: 30 Aug 2022 Page 1 of 8

Client Name: SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name : Gold (AU)

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

------

SGS Job No. : CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period: 25 Aug 2022 - 30 Aug 2022

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

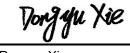
Test Method(s): Please refer to next page(s).

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

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results

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



Dongyu Xie Approved Signatory





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#### **Test Report** No. CANEC2218227002 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-182270.002 Gold plated metal

#### Remarks:

(1) 1 mg/kg = 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	50
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC22182270	02	Date: 3	0 Aug 2022	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

#### Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	002
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	<u>002</u> ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

#### Notes:



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(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N( $C_2H_5$ )<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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



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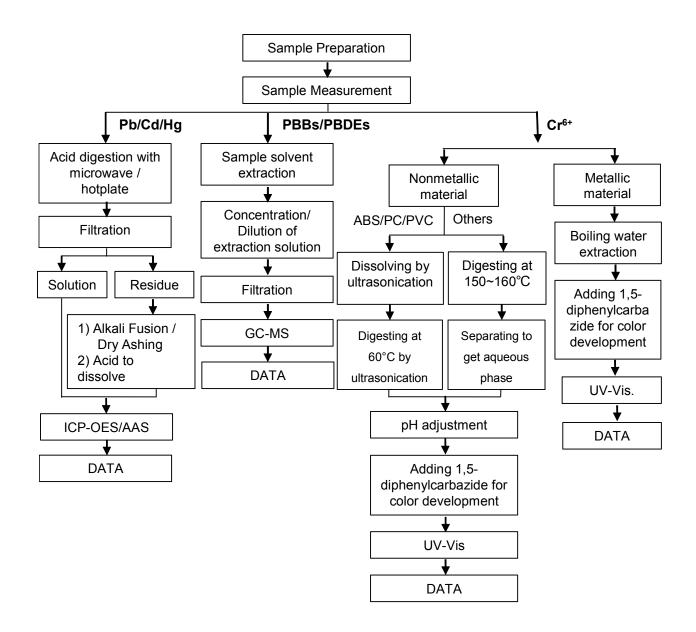
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#### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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





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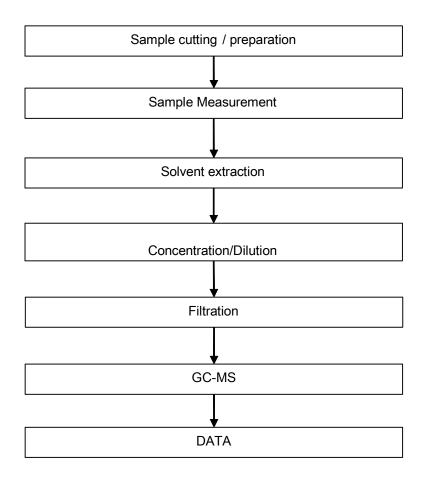
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#### **Phthalates Testing Flow Chart**





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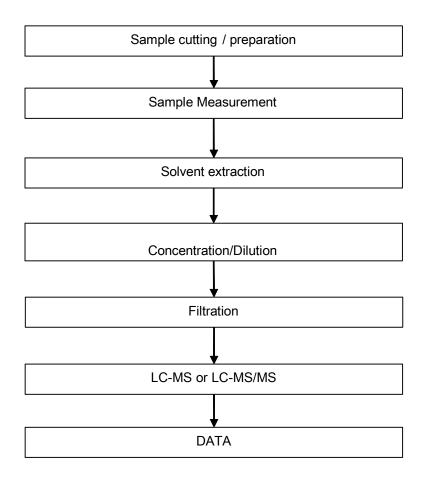
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#### PFOA / PFOS Testing Flow Chart





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