# **FLWCONN®**

# 承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N):216104-1102-G36018

品名规格 (PronameSpec): 针座 4.2 DIP 双排弯针 2x4P

送样日期 (Delivery Date):2022/07/28

承认日期 (Acknowledge Date): 2022/07/28

Approved No:	客	户									
Customer											
采 购 部	品 质 部	工程 部	确认								
Purchasing Dept	QC Dept	Engineering Dept	Approved By								
深 垻	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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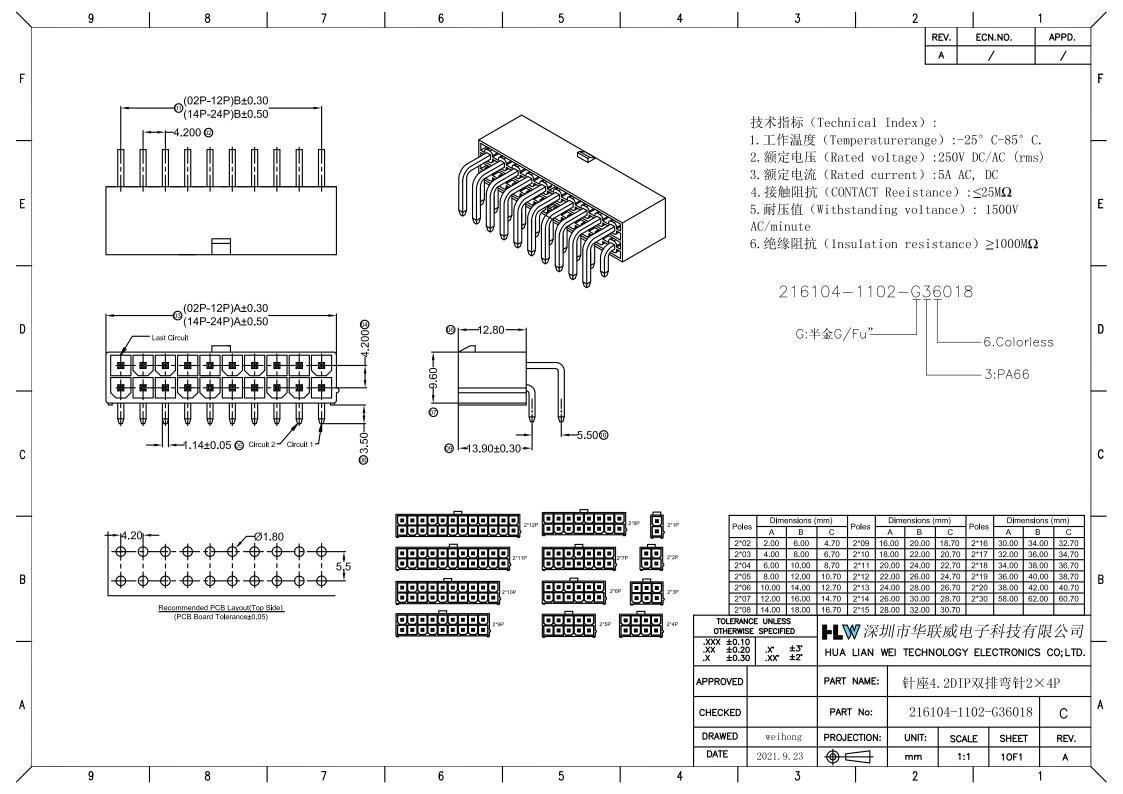


# **FLWCONN**®

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#### 1. 适用范围 Scope of application

本规范适用于GH系列产品。 This specification is applicable to GH series products

#### 2. 标准额定值 Standard rating

项目 project	规格 specifications
额定电压 The rated voltage	50V AC/DC
额定电流 Rated current	1.0A AC/DC
使用温度范围 Operating temperature range	-40 °C ~+105 °C
使用湿度范围 Operating humidity range	相对湿度90%以下 Relative humidity is below 90%

#### 3. 环保 The environmental protection

产品符合ROHS环保要求。Products in line with ROHS environmental protection requirements.

#### 4. 包装 Packing

产品内包装祥见包装要求,外包装为纸箱,产品在箱内密封,不晃动。

The inner packing of the product is joint and several, the outer packing is carton, the product is sealed in the box, do not shake.

#### 5. 运输 transport

允许用任何方式运输,但需避免雨雪淋和阳光照射,不能有碰撞和挤压等机械损伤,运输环境温度为-20°C+50°C It is allowed to be transported by any means, but it should avoid rain, snow and sunlight, no mechanical damage such as collision and extrusion, and the ambient temperature of transportation is -20°C+50°C

#### 6. 贮存: Storage

包装完毕连接器应在环境温度为-20℃<sup>~</sup>+50℃,相对湿度不大于90%,周围空气中没有酸性,碱性及其它腐蚀性气体的仓库中贮存。

After packaging, the connector should be in the ambient temperature of  $-20\,^{\circ}\text{C}^+50\,^{\circ}\text{C}$ , the relative humidity should not be more than 90%, there is no acid, alkaline and other decayin the surrounding air Storage of corrosive gases in a warehouse.

#### 7. 部件名称/部件规格型号/部件材质 Part name/part specification/part material

部件名称 Part name	型号 model	材质 The material
基座 base	GH	LCP
插针 pin	GH	黄铜/磷铜 Phosphor copper C5191/C2680
固定片 stator	GH	黄铜/磷铜 Phosphor copper C5191/C2680
盖板	GH	LCP

#### 8. 外观及尺寸 Appearance and size

#### 8.1外观 appearance

塑胶件表面应无明显疤痕、杂色、开裂、毛刺、飞边、缺料及影响使用的变形; 金属件表面应光洁、无锈蚀、 氧化、脱皮、发黑及明显的机械损伤等缺陷。

The surface of plastic parts shall be free of obvious scars, mottled, cracked, burr, flash, lack of material and deformation affecting the use; the surface of metal parts shall be smooth and clean No rust, oxidation, peeling, blackening and obvious mechanical damage.

#### 8.2 尺寸 size

参照工程图 Reference engineering drawing



9. 电气	特性 Elect	rical characteristics	
编号 number	项目 project	试验方法 Test method for	性能要求 performance requirements
9. 1	接触电阻 contact resistance	将连接器插合,用接触电阻仪进行测试,测量连接器两个端子之间组成一个闭合的回路。 Plug in the connector and test it with a contact resistance meter to measure both terminals of the connector Form a closed loop between.	20mΩ Max
9. 2	绝缘电阻 Insulation resistance	将连接器插合,在相邻接触件之间和接触件与外壳之间施加100VDC电压,持续1分钟进行测试。Plug in the connector and apply 100VDC voltage between the adjacent contacts and between the contacts and the enclosure for 1 minute.	500MΩ Min
9. 3	耐电压 Withstand voltage	将连接器插合,在相邻接触件之间和接触件与外壳之间施加500VAC电压,持续1分钟进行测试。 Plug in the connector and apply 500VAC voltage between the adjacent contacts and between the contacts and the enclosure for 1 minute.	无击穿和飞弧现象 No breakdown and flashover
10. 环境	特性		
编号 number	项目 project	试验方法 Test method for	性能要求 performance requirements
10. 1	耐热试验 Heating test	将插合连接器放在温度为 $+105$ °C $\pm 2$ °C 的环境中 $96$ H, 取出放在正常环境中 $1$ °2H后再进行测试。 Put the plug connector in the environment of $+105$ °C $\pm 2$ °C for $96$ H, take it out and put it in the normal environment for $1$ °2H before testing.	外观: 外观无损伤 Appearance: appearance without 接触电阻: 60mΩ Max Contact resistance: 60mΩ Max
10. 2	耐冷试验 Cold tolerance test	将插合连接器放在温度为 $-40$ ℃ $\pm2$ ℃的环境中96H,取出放在正常环境中 $1^{\sim}2$ H后再进行测试。 The plug connector was placed in the environment with the temperature of $-40$ ℃ $\pm2$ ℃ for 96H, and was taken out and placed in the normal environment for $1^{\sim}2$ H before being tested.	外观:外观无损伤 Appearance: appearance without
10. 3	耐湿性试验 Moisture resistance test	将插合连接器放在温度为 $40$ ℃ $\pm2$ ℃,相对湿度 $90$ ° $96$ %的环境中,持续 $96$ H,经试验后,取出放在正常环境中 $1$ ° $2$ H后再进行测试。Place the plug connector in an environment with a temperature of $40$ ℃ $\pm2$ ℃ and relative humidity of $90$ ° $96$ %. Last for $96$ H, after the test, take it out and put it in the normal environment for $1$ ° $2$ H before the test.	外观: 外观无损伤 Appearance: appearance without 绝缘电阻: 60MΩ MIN Insulation resistance: 60MΩ min 耐电压符合9.3要求 Withstand voltage meets 9.3 requirements

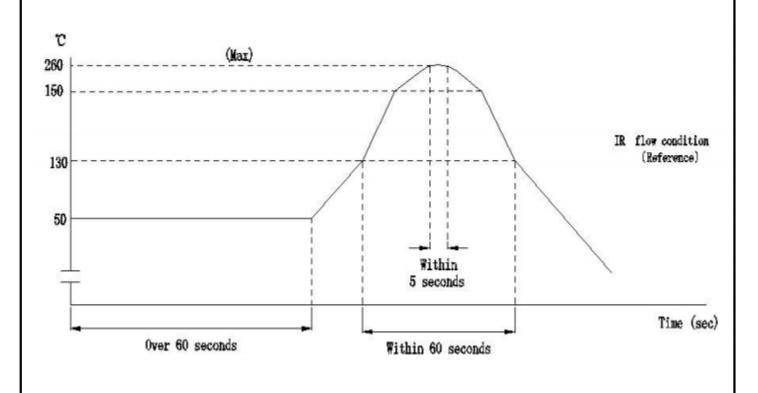


编号 number	项目 project	试验方法 Test method for	性能要求 performance requirement
10. 4	温度循环 Temperature cycle	把试验样品分别放入高低温试验箱,按下列步骤调试温度: a. 在-40℃±2℃的恒温条件下放置30分钟 b. 在常温条件下放置1H C. 在+105℃±2℃的恒温条件下放置30分钟 D. 在常温条件下放置1H 从a到d为一个循环周期,共进行5个循环,在正常环境中恢复2H后进行检查。 Put the test samples into the high and low temperature test chamber, and adjust the temperature according to the following steps: A. Place for 30 minutes under the constant temperature of $-40℃±2℃$ B. Place at room temperature for 1 hour C. Place for 30 minutes at a constant temperature of $+105℃±2℃$ D. Place at room temperature for 1 hour From a to d is a cycle period, a total of 5 cycles are carried out, and 2H is recovered in the normal environmentCheck later.	外观: 无任何异状 接触电阻: 60mΩ Max Contact resistance: 60mΩ Max
10. 5	盐雾试验 Salt Spray Test	将试验样品从试验箱顶悬挂下来,采用浓度为(5±1)%的氯化钠溶液,连续喷雾24H,试验后用流动的蒸溜水轻轻洗去表面沉淀积物,在常温条件下恢复1 $^{\circ}$ 2H后再检查测量。 The test sample was suspended from the top of the test box, and the concentration of $(5\pm1)$ % Sodium Chloride Solution was continuously sprayed with 24H. After testing, the surface precipitates were lightly washed with flowing steaming water, then the $1^{\circ}$ 2H was rechecked at normal temperature.	外观: 无损伤、腐蚀(五金件应无露出底金属的严重锈蚀: 使用预镀好的型材,其落料面允许有不影响其性能的轻微腐蚀。 Appearance: no damage or corrosion (hardware should not expose the bottom metal of serious corrosion: use preplatingThe blanking surface is allowed to have a slight corrosion that does not affect its performance.  接触电阻: 60mΩ Max Contact resistance: 60mΩ Max

# **FLWCONN**®

# 深圳市华联威电子科技有限公司 针座系列产品SPEC

编号	项目	试验方法	性能要求
number	project	Test method for	performance requirement
10.6	可焊性 weldability	把试验样品需要焊接的部位浸入 $240\pm5$ ℃的锡溶液中,保持 $2.5\pm0.5$ 秒。 Dip the welded part of the test sample into $240\pm5$ ℃tin solution and hold $2.5\pm0.5$ seconds.	沾锡面积95%以上 Tin area above 95%
10.7	耐焊性 Soldering resistance	将连接器置于PCB板上,然后将产品通过 $260$ $℃ \pm 5$ $℃$ 回流焊或波峰焊 $5\pm 1$ S进行测试。 Place the connector on the PCB, and then reflow the product through $260$ $ℂ \pm 5$ $ℂ$ Or wave soldering for $5\pm 1$ s.	1. 塑胶件不得有明显变形损坏起泡。 2. 电气特性必须符合规格。 Plastic parts shall be free from obvious deformation, damage and blistering. 2. The electrical characteristics must meet the specifications.





# 11. 机械特性 mechanical properties

编号 number	项目 project			性能要求 performance requirement									
11. 1	PIN针固定力 Pin fixing force	的速率,直 Fix the pin on the from	将针座固定在插拔力机上,在针脚前端施加力, 以每分钟25±3mm的速率,直到针退出针座的拔出力。 Fix the pin holder on the drawing machine and apply force on the front end of the pin at a rate of 25±3mm per ninute until the pin is withdrawn from the pin holder.										
11.2	端子在塑胶 件中保持力 Terminal retention in plastic parts	孔座中拔出 The termina at the rate direction,	端子与孔座配合, 以每分钟25±3mm的速率沿导线方向,将端子从孔座中拔出的力。 The terminal shall be matched with the hole seat, and it the rate of 25±3mm per minute along the conductor lirection, theThe force that the terminal is pulled but of the socket.										
11.3	机械寿命 Mechanical life	Under no po	无通电状态下,10次/分钟的速度插拔30次。 nder no power on state, plug and unplug 30 times at he speed of 10 times / min.										
		扣去掉。 (1) Fit th removal tes the hole se	E和端子配合 (测试速度: : de hole sea st on the s eat (test s	好,与针座 20±5mm) mir t and the t ame axis wi	nute erminal, and th the need 5mm) minu	进行插拔测试, d conduct the i lle seat. Remove te during the to 插入(N) insert	e the lock of						
	插入力拔出力	10 12	( max)	(min)	40 17	( max)	(min)						
11.5	Insertion pull out	2PIN	19. 5	4. 0	10PIN	35. 5	8.0						
	force	3PIN	21.5	4. 5	11PIN	36. 5	8. 5						
		4PIN	23. 5	5. 0	12PIN	37. 5	9. 0						
		5PIN	25. 5	25. 5 5. 5 13PIN 38. 5		38. 5	9. 5						
		6PIN	27. 5	6. 0	14PIN 39.5		10.0						
		7PIN	7PIN 29.5 6.5 15PIN 40.5		40. 5	10. 5							
		8PIN	31. 5	7. 0	16PIN	41. 5	11.0						
		9PIN	33. 5	7. 5									



# 深圳市华联威电子科技有限公司

SHENZHENHUALIANWEIELECTRONICS CO., LTD.

# 測試報告

TEST REPORT

產品 名稱 Part Name	针座4	I.2 DIP双排弯针2x4P	,		2022. 07. 25– 2022. 07. 27		報告編號 Report NO.		MD20220727-01		L	
產品 型號 Part Name	2161	.04-1102-G36018		樣品數量 Quantity	5PCS	5PCS 測試環境 Date of Testing			濕 度Temp:18 <sup>2</sup> 1℃ 相對濕度 R. H.:49% <sup>57%</sup>			
一. 電	性測試 ELEC	TRICAL TEST										
序號 NO	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	1	測試記 2	錄Testing 3		5	判定 Judge		
1	接觸阻抗	20mA	s 直流低電 阻測試儀	20mΩ Max	1 Pass	Pass	Pass	4 Pass	Pass	OK V	NG	
2	絕緣阻抗	500 V DC/1分钟	絕緣電阻 測試儀	5000 MΩ Min.	Pass	Pass	Pass	Pass	Pass	V		
3	耐壓測試	1000V AC / 0.5 mA 50秒	耐壓測試 儀	No damaged	OK	OK	OK	OK	OK	v		
二. 机	二. 机械特性測試 MECHANICAL TEST											
序號 NO	測試項目 Testing	測試條件	測試設備 Testing	規格 SPEC	測試記錄		錄Testing Result			判 Jud		
NO	Item	Testing Conditions	Equipment s	SPEC 插拔	1	2	3	4	5	OK	NG	
4	4 插入力 每分钟12.7±3mm的)	每分钟12.7±3㎜的速度	插拔力計	2. 54mm	OK	OK	OK	OK	OK	V		
				1.00mm 0.78 4N MAX								
				间距 插拔 力 0.59								
5	拔出力	每分钟12.7±3mm的速度	插拔力計	2. 54mm N MIN 0. 49 2. 00mm N MIN	0. 49 N	OK	OK OK	OK	OK	v		
				1. 27mm 0. 30 N MIN 0. 15								
		And the Total Control		1.00mm N MIN								
6	锁口保持力	间距     插拔力       2.54mm     9.8N MIN       2.00mm     7.84N MIN       1.27mm     2.45N MIN       1.00mm     0.08N MIN	日重测试 机	不得发生物理损坏 。	OK	OK	ОК	OK	OK	V		

7	耐久性	测试速度:每分钟15个循环,测试次数:100次循环最少	插拔力計	不得发生物理损坏。	OK	OK	OK	OK	OK	V		
三. 环	三.环境特性测试 ENVIRONMENTAL TEST											
序號	測試項目	測試條件	測試設備 Testing	規格		測試記	錄Testing	g Result		判》 Jud		
NO	Testing Item	Testing Conditions	Equipment	SPEC	1	2	3	4	5	ОК	NG	
9	冷热冲击	温度-40±3℃ 温度105±3℃ 持续时间0.5H	高低温试验箱	不得发生物理损坏	OK	OK	OK	OK	OK	V		
10	湿温循环	温度85℃±5℃, 持续时间:250H	湿温循环 机	最大接触阻抗20m Ω	OK	OK	OK	OK	OK	V		
11	盐雾试验	温度:35±2℃ 12小时	盐雾试验 箱	最大接触阻抗20m Ω	OK	OK	OK	OK	OK	V		
12	可焊性	焊锡温度: 260±5℃	熔锡炉	沾锡面积达90%以 上	OK	OK	OK	OK	OK	V		
13	焊接耐热试 验	260±5℃ 10秒	工业烘烤 箱	不得发生物理损坏	OK	OK	OK	OK	OK	V		
	宗合判定 JUDGMENT		——— ■ 合格( <i>A</i>	acceptable)		□ 不台	ì格(Reje	ect)				
核准	È(Approver):	欠必锋							<u></u> 測試(T	ester):	旦芬	

# **FLWCONN®** 深圳市华联威电子科技有限公司

# 檢驗報告

■首	牛檢驗 口入庫	ⅳ檢驗 □₺	出貨檢	驗口	客退檢	·驗 口:	退料檢	驗□	其他		2022年	月28日	1 版次:A1
料號	216104-1102-	G36018	制令	制令單號 /		送檢	單位	工程部		首件製作者		裝配	
品名	针座4.2 DIP		客戶	代號		/	批	量	/		送檢時間		1
	2X4P				<i>-</i> -		數	量		PCS		忍時間	/
	抽樣標準			■單:		□雙次			学数 CC )	AQL		MAJ:0.40	MIN:0.65
	MIL-STD-105I	E(II)		正常	□ 力口 <i>,</i>	嚴 🗆	減量	( 3P	CS)	ACC/REJ	0	/	/
不	良 数:	CRI (	/	) N	IAJ (	/	) M	IN (	/	)	不良	以率(%)	/
NO.	檢驗項目	檢測		檢	驗記	錄		品管	判定	CRI	MAJ	MIN	備注
	單位:MM/G	儀器	1	2	3	4	5	AC	RE				
	10.00±0.30	D	10.02	10.01	10.02	10.01	10.03	√					
	4.200±0.10	D	4.21	4.20	4.22	4.20	4.20	√					
	6.00±0.30	D	6.04	6.05	6.04	6.04	6.03	√					
	4.200±0.20	D	4.21	4.20	4.20	4.21	4.21	$\checkmark$					
	1.14±0.05	D	1.14	1.15	1.15	1.15	1.16	$\checkmark$					
	4.200±0.20	D	4.21	4.23	4.22	4.20	4.23	<b>√</b>					
	3.50±0.20	D	3.52	3.51	3.51	3.52	3.52	<b>√</b>					
	9.60±0.20	D	9.62	9.61	9.62	9.63	9.62	<b>√</b>					
	12.80±0.20	D	12.82	12.84	12.83	12.82	12.80	√					
	13.90±0.20	D	13.92	13.91	13.92	13.91	13.91	√					
	5.50±0.20	D	5.53	5.54	5.53	5.52	5.50	√					
檢驗	依據: ■<<工科	呈圖紙>>	□<<	檢驗規	範>>	□<<夷	《認書>	·> 🗆	樣品	口其它			
檢測	義器:A游標卡尺	B千分尺	C厚薄	儀 D投	影鏡 E	放大鏡	F顯微錐	竟 <b>G</b> 錫	爐 H	插拔力器	I間位尺	J其它	
品保													
	核 准 APP	欠	《必锋			核 HK		/		檢驗 INSPI		但	旦芬

保存部門:品保部 保存期限:三年 QR-M-003

# **FLWCOND®** 深圳市华联威电子科技有限公司

# 电镀报告表

品名:针座4.2 DIP双排弯针2x4P(端子)		版次:A.0
电镀规格:Ni30u",Sn100u",Au G/Fu"	日期:2022-07-04	页次:1/1

厂商:同华

测试设备:CMI X-射线膜厚测试仪

1、底层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	30u″MIN	50. 5u"	OK	2022/7/4	10:20:15
2	30u″MIN	56. 3u"	OK	2022/7/4	10:20:17
3	30u″MIN	67. 5u"	OK	2022/7/4	10:20:19
4	30u″MIN	62. 4u"	OK	2022/7/4	10:20:21

### 2、表层电镀测试(Sn)

数据	测试标准	实测值	判定	测试日期	测试时间
1	100u"MIN	105. 3u"	OK	2022/7/4	10:25:10
2	100u"MIN	104. 7u"	OK	2022/7/4	10:25:12
3	100u"MIN	105. 9u"	OK	2022/7/4	10:25:14
4	100u"MIN	107. 4u"	OK	2022/7/4	10:25:16

### 3、表层电镀测试(Au)

数据	测试标准	实测值	判定	测试日期	测试时间
1	0.5u"MIN	0. 52u"	OK	2022/7/4	10:30:32
2	0.5u"MIN	0. 55u"	OK	2022/7/4	10:30:34
3	0.5u"MIN	0.53u"	OK	2022/7/4	10:30:36
4	0.5u"MIN	0.54u"	OK	2022/7/4	10:30:38

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
安白		试验起始日期	2022年07月27日 20:00 时起
客户		DATE	2022年07月28日 08:00 时止
样品名称	针座4.2 DIP双排弯针2x4P	试验数量	5PCS
P/N	216104-1102-G36018	QTY	
)上7人夕 /庄	(TECT COMPLITION)		

### 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 )

试验后以20倍放大镜观察、无蓝、绿色腐蚀物之现象(不包含折弯处),即判定合格.(Inspext the ecimen at 20 xmagnification no blue or green corrosion products are acceptable)

CCIMCII at 2	o kinagniliteation no blac of green collobion	products are acceptable,
採口亭旦	试验后现象	判定
样品序号	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	钜鼎銅材廠檢驗報告單			重量 Weight(kg)	1078		日期 ate	2021	/11/23	
品名	標准		尺寸		狀態		銅卷編號			
Article		Stand	ard No		Dime	ension	Ter	nper	Co	il No
C2680	v.	JISH31	00:2017		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	\	\	\	\		-	\
實測 Actual	\	178	574	5	\	\		\ \ .		\ - ·

品質部

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



Test Report No. CANEC2222380701 Date: 26 Oct 2022 Page 1 of 4

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: C2680 Terminal

Model No.: C2680 terminal 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



Dongyu Xie Approved Signatory



有限公司 测专用章 Testing Services achical Service Co., Ltd.

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No. CANEC2222380701 Date: 26 Oct 2022 Page 2 of 4

Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description

> SN1 CAN22-223807.001 Silver-grey/brassy 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>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	3
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. CANEC2222380701

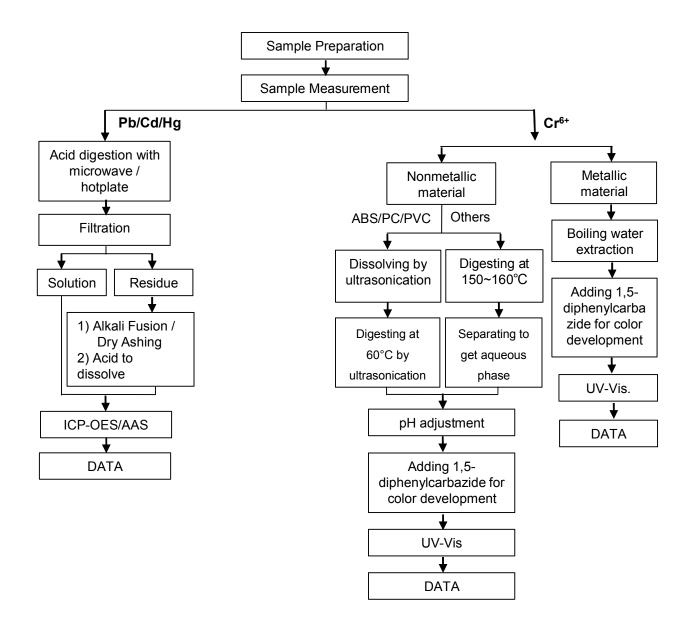
Date: 26 Oct 2022

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#### **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. CANEC2222380701

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Date: 26 Oct 2022

Sample photo:



SGS authenticate the photo on original report only

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



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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.

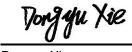
Test Method(s): Please refer to next page(s).

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	e: 30 Aug 2022 Page 3	
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

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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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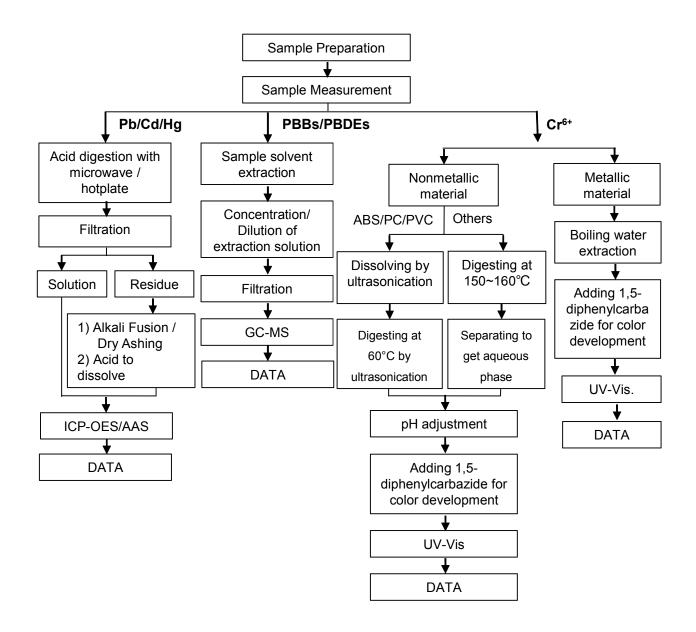
Date: 30 Aug 2022

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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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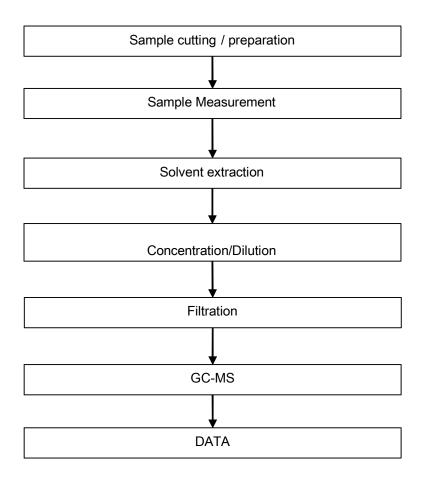
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### Phthalates Testing Flow Chart





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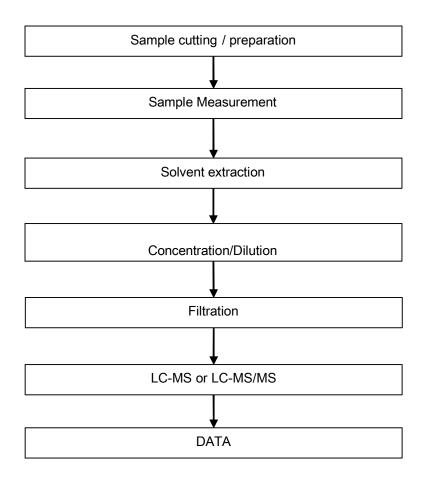
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#### **ATTACHMENTS**

### PFOA / PFOS Testing Flow Chart





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Sample photo:



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**Test Report** No. CANEC2218227003 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 : Bright Tin(SN)

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.

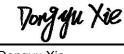
Test Method(s): Please refer to next page(s).

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. CANEC2218227003 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

#### Test Part Description:

Specimen No. SGS Sample ID Description

> SN1 CAN22-182270.003 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>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	44
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. CANEC2218227003		No. CANEC2218227003 Date: 30 Au		0 Aug 2022	ug 2022 Page 3 of 8	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</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			
Octabromodiphenyl ether Nonabromodiphenyl ether Decabromodiphenyl ether Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Bis (2-ethylhexyl) phthalate (DEHP)	- - 1000 1000 1000	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	5 5 5 5 50 50	ND ND ND ND 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>	003
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

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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-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

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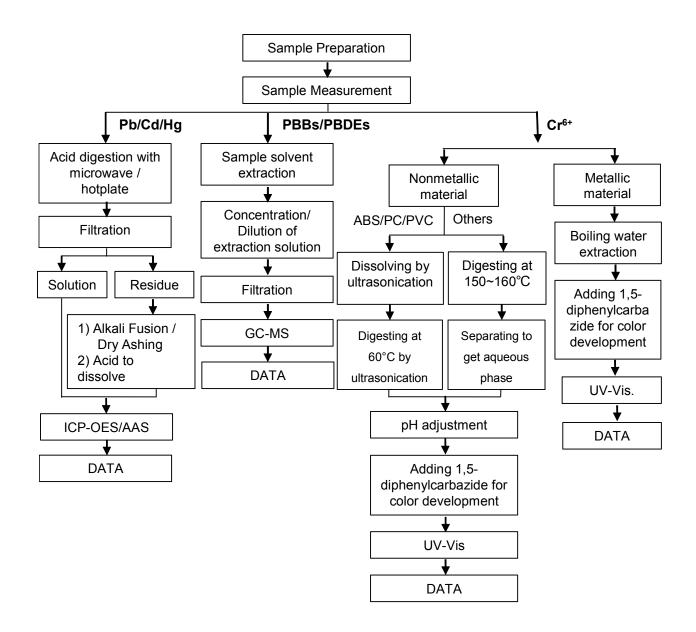
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#### **ATTACHMENTS**

### 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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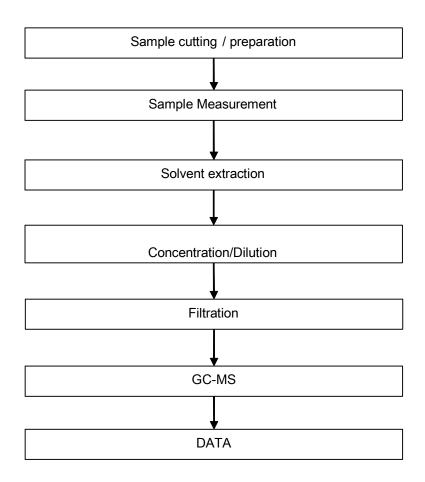
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#### **ATTACHMENTS**

### **Phthalates Testing Flow Chart**





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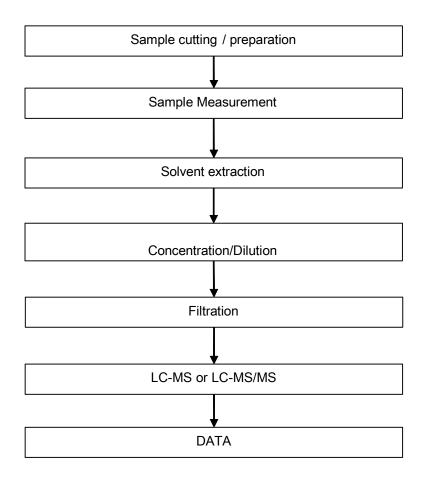
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### PFOA / PFOS Testing Flow Chart





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