

承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N): SD5209-13B-G618

品名规格 (PronameSpec): TF 卡座 (掀盖式) 8P 高度 1.8

送样日期 (Delivery Date):2022/01/14

承认日期 (Acknowledge Date):2022/01/18

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
深圳市华联威电子科技有限公司			
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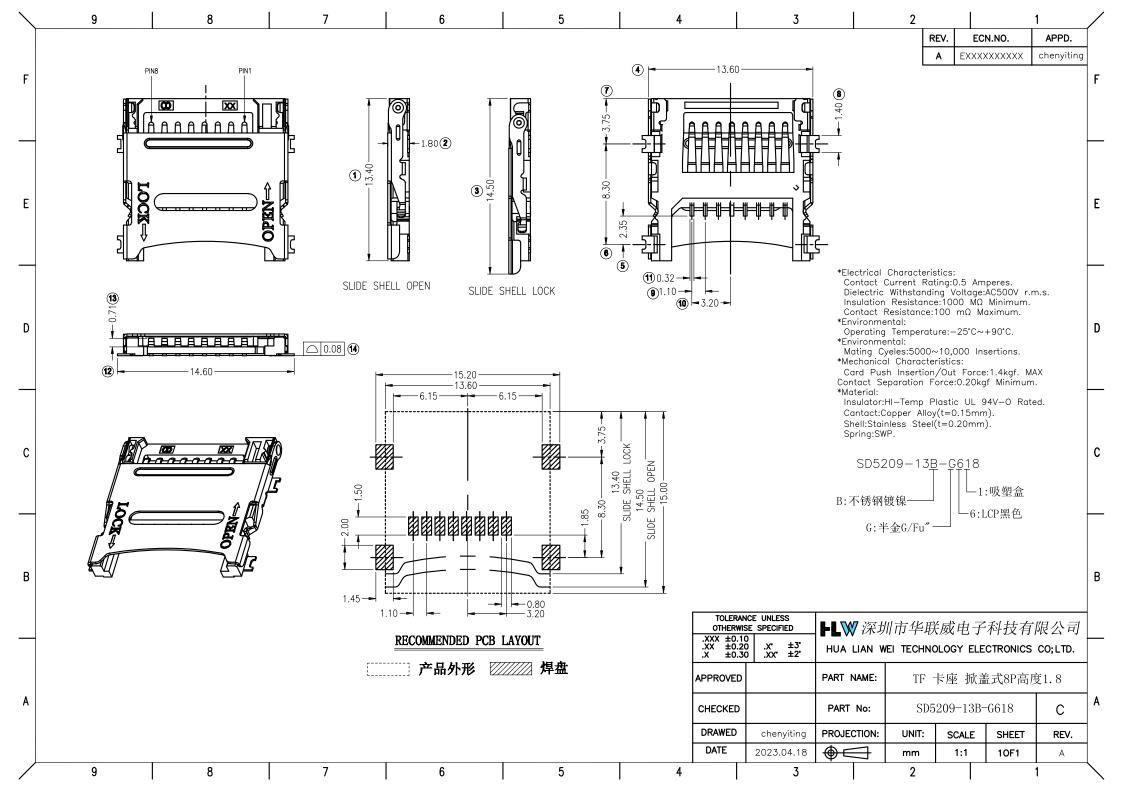


FLWCONN®

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PRODUCT SPECIFICATION 产品规格书

LANGUAGE 语言

ENGLISH/CHINESE 英/中

1. SCOPE [适用范围]

This specification covers the TF CARD PUSH PUSH CONNECTOR SMT TYPE [本规范适用于 TF CARD PUSH PUSH CONNECTOR SMT TYPE]

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° 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**-0-****		TITLE: TF CARD PUSH PUSH CONNECTOR SMT TYPE		
料号:		品名:		
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 PU 品名:		
SHEET 页码	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)	Electrical load: 10mA [振幅: 1.52mm,振动频率: 10~55~10Hz,振动时间: X、Y、Z — 44	Contact Resistance 接触阻抗	ΔR=40mΩ Max ΔR=40mΩ以下
			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	
	Hook hook	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	6 Heat test hours in room ambient. [附热性测试] 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-**** 料号:		TITLE: TF CARD PUSH PUSH C品名:	CONNECTOR SMT TYPE
SHEET 页码	4/6	REV./版本	AO

PRODUCT SPECIFICATION 产品规格书

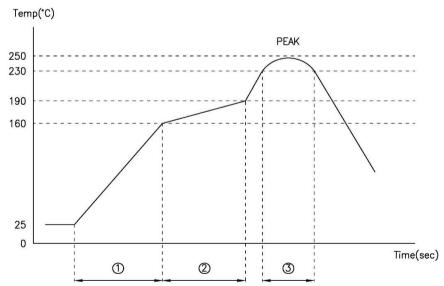
LANGUAGE 语言

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℃ {EIA-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 $1\sim4\%$ /sec Pre-Heating Zone ②; $160\sim190\%$ 120sec Soldering Zone ③;Forty seconds over 230% PEAK temperature;Below 250%

- 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
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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	Insuation Resistance/绝缘阻抗	3		5								
6. 3	Withstanding Voltage/耐电压	4										
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	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



FLWCONN® 深圳市华联威电子科技有限公司 SHENZHENHUALIANWEIELECTRONICS CO.

測試報告

TEST REPORT

產品名稱 Part	TF 卡座 (打	欣盖式)8P高度		試日期 of Testing			報告編號 Report NO.		MD20220118-01		1
產品型號 Part	SD5209-13B	-G618	樣品數量 Quantity		5PCS		測試環境 Date of Testing		濕 度 Temp: 18~21℃ 相 對濕度 R. H. : 49%~57%		相
一. 電性測試	ELECTRICAL '	TEST									
序號 NO	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipments	Testing 規格 測訊部		測試記	上錄Testir	ng Result	判定 Judge		
		Conditions			1	2	3	4	5	OK	NG
1	接觸阻抗	100 m Ohm	直流低電 阻測試 儀	100 m Ohm Max	90.2m OhmΩ	89.8m OhmΩ	91.5m OhmΩ	92. Om Ohm Ω	98.53m OhmΩ	V	
2	絕緣阻抗	1000 M Ohm VDC	絕緣電阻 測試儀	1000 M Ohm Min	Pass	Pass	Pass	Pass	Pass	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. 机械特性	測試 MECHANI	CAL TEST									
序號 NO	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing 規格 Equipments SPEC		測試記錄Testing Result				t	判定 Judge	
		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。	OK	OK	OK	OK	OK	V	
三. 环境特性	测试 ENVIRON	MENTAL TEST									
序號 NO	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing 規格 Equipments SPEC 測試記錄Testing Result		判定 Judge	T					
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。	OK	2 OK	OK	OK	5 OK	OK V	NG

8	湿温循环	温度25 [~] 65℃, 湿90 [~] 95%,持 续时间:4qw	湿温循环 机	最大接触阻抗 30mΩ	OK	OK	OK	OK	OK	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	OK	OK	OK	OK	OK	V	
10	可焊性	焊锡温度: 245±5℃	熔锡炉	沾锡面积达 90%以上	ОК	OK	OK	OK	OK	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	OK	OK	OK	OK	OK	V	
綜合判 JUDGMENT	定TEST	■ 合格(Acceptable) □ 不合格(Reject)									

核准(Approver): 欠必锋

測試(Tester): 但芬

FLWCONN® 深圳市华联威电子科技有限公司

檢驗報告

■首件檢驗	魚 口入庫檢驗 口	出貨檢	驗 口名	字退檢	驗口	退料模	験 □	1其他		2022年	F 01 月	18日 版	灰:A1
料號	SD5209-13B-G6	618	制令国	單號	ı	/	送檢	單位	-	L程部		製作者	裝配
品名	TF 卡座(掀盖式)	8P高度	客戶	七號	,	1	批	量		/		<u> </u>	1
	1.8		ш/ 1				數	量	I.	5PCS		忍時間	/
	抽樣標準			■單次]雙次		抽样		AQL		MAJ:0.40	
N	IIL-STD-105E(II)		五	常	□加婧		減量			ACC/REJ	0	/	/
不良数:		CRI (/)	MAJ	(/)	MIN	1 (/)	不良	早率(%)	/
NO.	檢驗項目	檢測		檢	驗記	錄		品管料	判定	CRI	MAJ	MIN	備注
	單位:MM/G	儀器	1	2	3	4	5	AC	RE	010	1,111	17221	用江
	0.71±0.20	D	0.70	0.72	0.73	0.69	0.68	√					
	14.60±0.20	D	14.65	14.63	14.61	14.58	14.55	√					
	13.40±0.20	D	13.44	13.42	13.38	13.36	13.39	√					
	1.80±0.20	D	1.85	7.77	1.79	1.83	1.82	√					
	14.50±0.20	D	14.51	14.49	14.47	14.46	14.53	√					
	13.60±0.20	D	13.63	13.55	13.57	13.59	13.61	√					
	1.40±0.20	D	1.41	1.43	1.39	1.37	1.35	√					
	3.75±0.20	D	3.66	3.68	3.75	3.72	3.70	√					
	8.30±0.20	D	8.28	8.31	8.33	8.35	8.38	√					
	2.35±0.20	D	2.28	2.38	2.35	2.32	2.30	√					
	0.32±0.20	D	0.30	0.28	0.26	0.32	0.33	√					
	1.10±0.20	D	1.11	1.05	1.08	1.05	1.02	√					
檢驗依據:	<<工程圖紙>>		檢驗規範	範>>	□<< <u>7</u>	承認書	>> [樣品		其它			-
檢測儀器:	A游標卡尺 B千分尺	C厚薄	儀 D投影	影鏡 E	放大鏡	F顯微	[鏡 G 錢	易爐 H扌	番拔	力器 I間位	i尺 J	其它	
品保判定:			合格Ac	cept	□退	貨Reje	ect	□特須	€Wa	aive [挑選	Sort	

核准: 欠必锋 审核: 刘联英 检验员: 但芬

FLWCOND® 深圳市华联威电子科技有限公司电镀报告表

品名:TF 卡座 (旅盖式) 8P高度1.8版次:A. 0电镀规格:Ni:50u" min日期:2022/01/14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	55. 3u″	OK	2022/1/14	10:42:14
2	50u"min	57. 6u″	OK	2022/1/14	10:42:16
3	50u"min	56. 4u"	OK	2022/1/14	10:42:18
4	50u"min	52. 5u″	OK	2022/1/14	10:42:20

核准: 欠必锋 审核: 刘联英 检验员: 但芬



FLWCOND® 深圳市华联威电子科技有限公司

电镀报告表

品名:TF 卡座(掀盖式)8P高度1.8(端子) 电镀规格:Ni40u", Sn40u", Au G/Fu" 页次:1/1 日期:2022/01/14

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	40u"MIN	45. 3u"	OK	2022/1/14	13:50:12
2	40u"MIN	48. 5u"	OK	2022/1/14	13:50:14
3	40u″MIN	44. 2u"	OK	2022/1/14	13:50:16
4	40u″MIN	45. 6u"	OK	2022/1/14	13:50:18

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	40u″MIN	43. 3u"	OK	2022/1/14	14:10:36
2	40u″MIN	42. 4u"	OK	2022/1/14	14:10:38
3	40u″MIN	46. 7u"	OK	2022/1/14	14:10:40
4	40u″MIN	43. 1u"	OK	2022/1/14	14:10:42

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	0.56u"	OK	2022/1/14	14:18:20
2	0.5u"MIN	0.58u"	OK	2022/1/14	14:18:22
3	0.5u"MIN	0. 59u"	OK	2022/1/14	14:18:24
4	0.5u"MIN	0. 57u"	OK	2022/1/14	14:18:26

核准: 欠必锋 审核: 刘联英 检验员: 但芬



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-1216
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL 01D 1210
客户	/	试验起始日期	2022年01月17日 08:00 时起
谷) '	/	DATE	2022年01月18日 20:00 时止
样品名称	TF 卡座(掀盖式)8P高度1.8	试验数量	5PCS
P/N	SD5209-13B-G618		

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)

样品序号	试验后现象	判定
件加力亏	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:刘联英 试验员:但芬

Materials Information

PRODUCT NAME: LCP M-401 BK

COMPOSITION/INFORMATION OF LCP M-401 BK

SUBSTANCE/MIXTURE: Mixture

SYNONYM(S): Aromatic Liquid Crystal Polymer(LCP)

品名	比例	用途
德众泰 LCP 树脂	0.565	构成材料主要成分
抗氧剂	0.002	抗氧化
科莱恩热稳定剂	0.003	增加高温稳定性
黑色母	0.01	着色
滑石粉	0.2	增强剂,增加流动性
玻纤	0.22	增强

NAME OF COMPANY. DZT Engineering Plastics Tech. Co.,Ltd

ADDRESS: Building 2 Zhichong Industrial Park, Hi-Tech Zone, Jiangmen City,

Guangdong Province, China

SECTION CHARGE: Quality Assurance Department

TEL/FAX: +86-750-3689920/+86-750-3689921

EMERGENCY TEL: +86-750-3689708



产品质量证明书

PRODUCT INSPECTION CERTIFICATE

	同号码:	201	3101400	3	等	级:		1.4		* .							
ij	tract No. 货力:	***************************************	YU HUA	·	Gr.	ade 名:	不锈钢料	入礼钢带(COIL)	牌号:	SUS304-CS	SP 1/2H	钢卷	编号:		13092820)
54.44	er 货力: plier	<u></u>	完鑫发	· · · · · · · · · · · · · · · · · · ·		Metrication	JIS	G 4313-19	996	Type 表面加工: Surface Finish	2B	尧	4	number 日期:	2	013-10-1	5
				品尺寸 duct Si			1	拉伸试验 nsile Te	st	表面硬度 Hardness		(化 hemical	学成 Composi		· •	
序号 No.	, , , , , , , , , , , , , , , , , , , ,	厚度 Thickness mm	宽度 Width 皿	长度 Length m	卷数 Number C	重量 Weight Kg	N/mm²	抗拉强度 N/mm ²	%	维氏硬度 HV	碶 C	硅 Si	Œ. Mn	₽	磁 S	領 Ni	铬 Cī
1	SUS304-CSP 1/2H	0, 3	410	COIL	i	1102. 3	≥470 625	≥780 836	≥6 7	250-300 280	≤0.080 0.072	≤1.000 0.490	≤2.000 1.212	≤0.045 0,042	≤0.030 0.002	8.0-10.5 8.100	18.0-20.0 18.020
																展材料	
Size and Surface:Guaranteed 2. 拉伸试验:方法符合JISZ2241标准:试样规格为JISZ2201 5号 Tensile Test:Technique accord with JIS Z 2241; Sample Specification accord with No. 5 of JIS Z 2201				WE HEREBY WADE IN A SPECIFICA *此报告(CERTIFY COORDANC TION 又可完全	D符合订单和标准 THAT THE MATERI E WITH THE ORDER 复制 only be copies	AL HEREIN I	ias been			ANI WARE	未 部 AL DEPT.					



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



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Test Report 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/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.

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

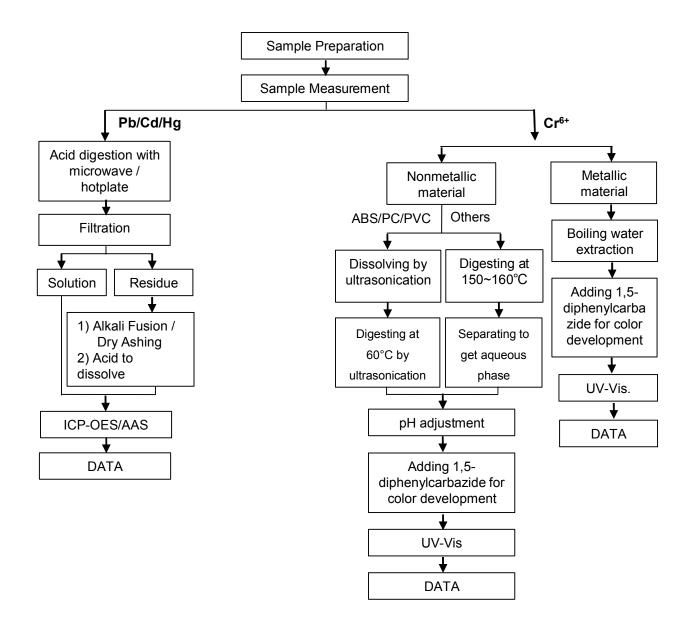
Date: 26 Oct 2022

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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. (Cr⁶⁺ test method excluded).





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No. CANEC2222380701

Page 4 of 4

Date: 26 Oct 2022

Sample photo:



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Test Report No. CANEC2222380705 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: SUS304 hardware

Model No.: SUS304

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





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Test Report No. CANEC2222380705 Date: 26 Oct 2022 Page 2 of 4

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN22-223807.005 Silver-grey 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>005</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
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/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.

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. CANEC2222380705

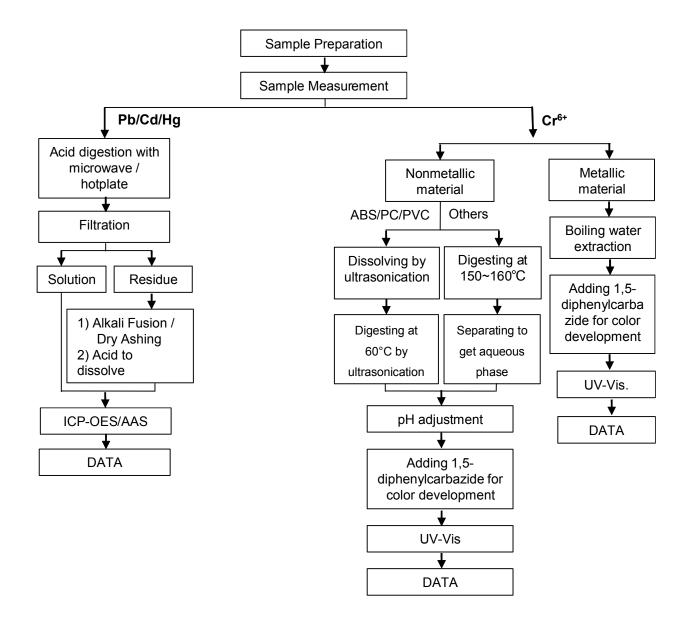
Date: 26 Oct 2022

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. (Cr⁶⁺ test method excluded).





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No. CANEC2222380705

Date: 26 Oct 2022 Page 4 of 4

Sample photo:



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Test Report No. CANEC2222380708 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 black 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

Vorgyu Xie

Dongyu Xie

Approved Signatory





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Test Report No. CANEC2222380708 Date: 26 Oct 2022 Page 2 of 6

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN22-223807.008 Black 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.

<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
100	mg/kg	2	ND
1000	mg/kg	2	6
1000	mg/kg	2	ND
1000	mg/kg	8	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
1000	mg/kg	-	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
-	mg/kg	5	ND
	100 1000 1000 1000 	100 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg - mg/kg	100 mg/kg 2 1000 mg/kg 2 1000 mg/kg 8 1000 mg/kg - - mg/kg 5 1000 mg/kg - - mg/kg 5 - </td



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Test Report	No. CANEC22223807	Date: 2	26 Oct 2022	Page 3 of 6	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</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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No. CANEC2222380708

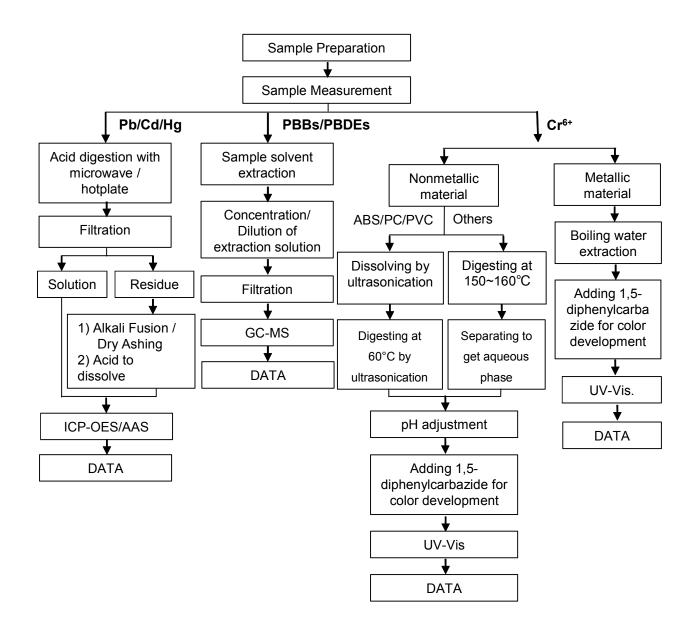
Date: 26 Oct 2022

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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. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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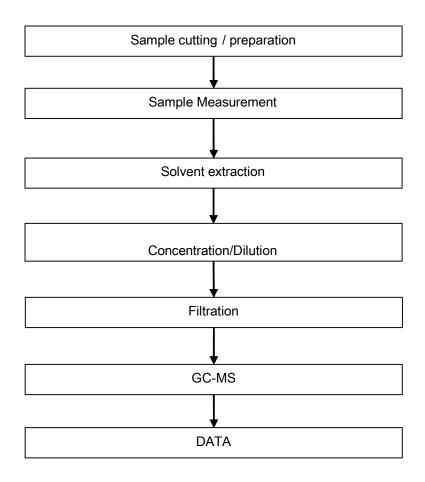


No. CANEC2222380708

Date: 26 Oct 2022 Page 5 of 6

ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC2222380708

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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.

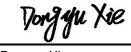
Test Method(s): Please refer to next page(s).

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	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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(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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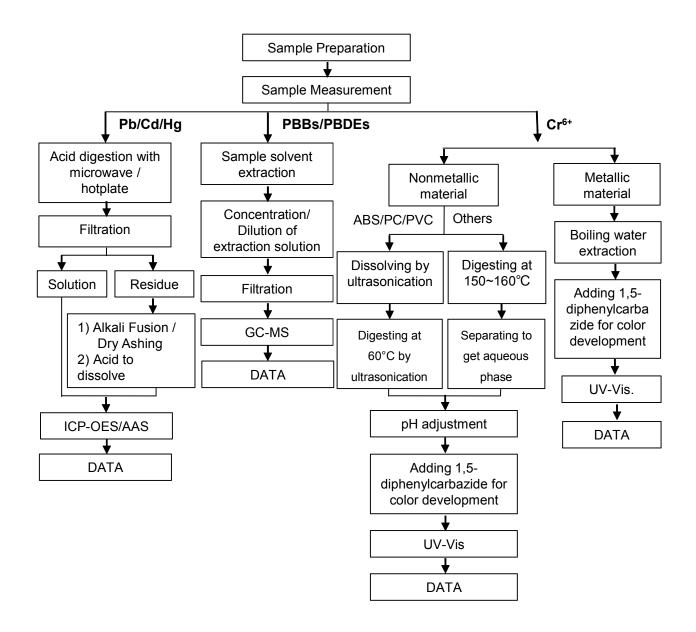
Date: 30 Aug 2022

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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. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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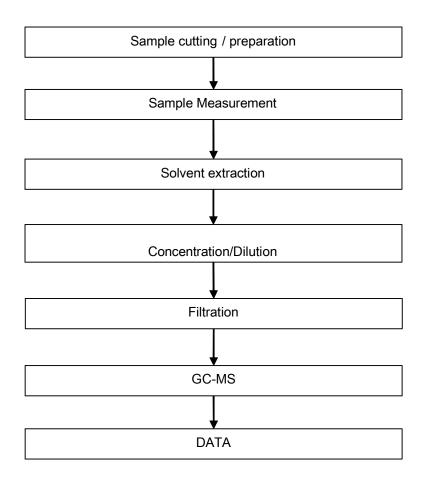
No. CANEC2218227001

Page 6 of 8

Date: 30 Aug 2022

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Phthalates Testing Flow Chart





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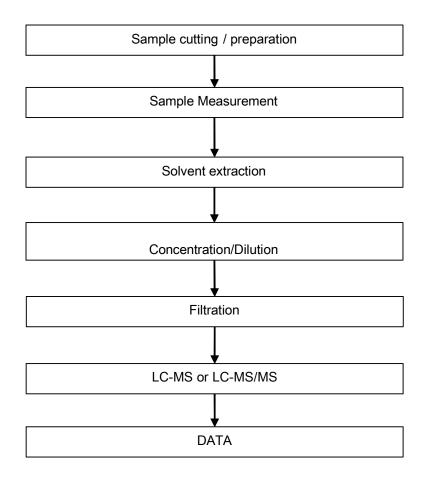
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PFOA / PFOS Testing Flow Chart





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Sample photo:



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Test Report Date: 30 Aug 2022 No. CANEC2218227003 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD Client Name:

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

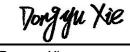
Test Requested: Selected test(s) as requested by the client.

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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No. CANEC22182210	Date: 3	30 Aug 2022	Page 3 of 8	
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	- mg/kg 1000 mg/kg 1000 mg/kg	Limit Unit MDL - mg/kg 5 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50	Limit Unit MDL 003 - mg/kg 5 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 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>	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

Notes:



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No. CANEC2218227003 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)₂ (CAS No.: 70225-14-8), PFOS-N(C_2H_5)₄ (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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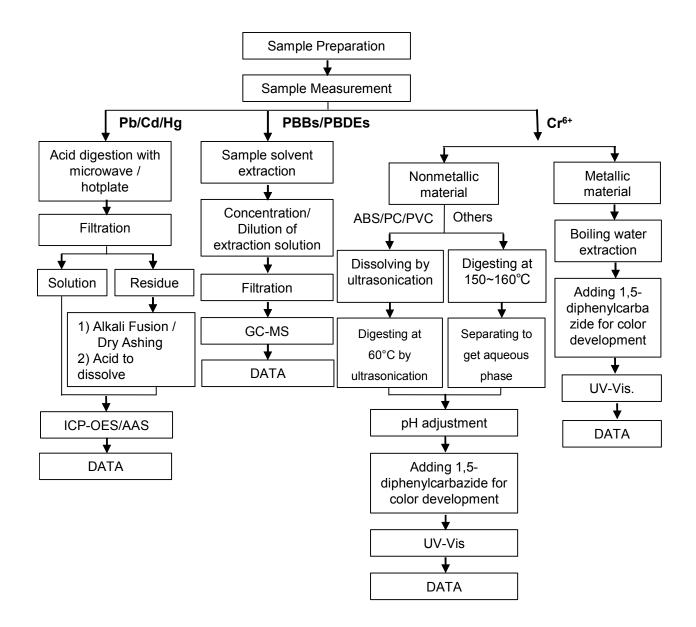
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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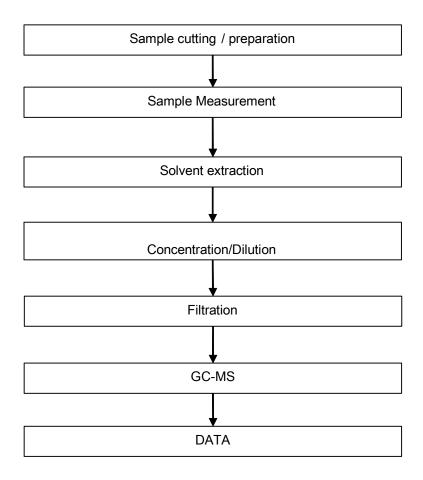
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Phthalates Testing Flow Chart





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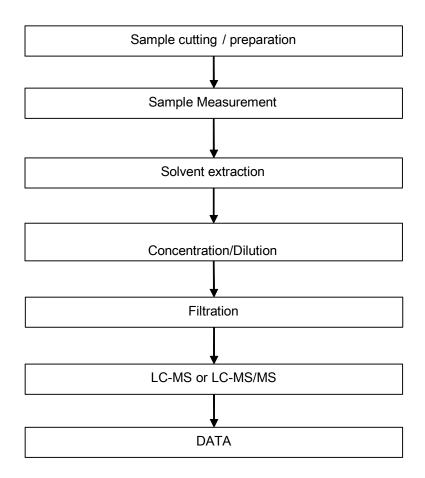
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PFOA / PFOS Testing Flow Chart





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No. CANEC2218227003

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Date: 30 Aug 2022

Sample photo:



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

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

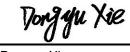
Test Requested: Selected test(s) as requested by the client.

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



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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)

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, 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>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	Date: 3	30 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-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C_2H_5)₄ (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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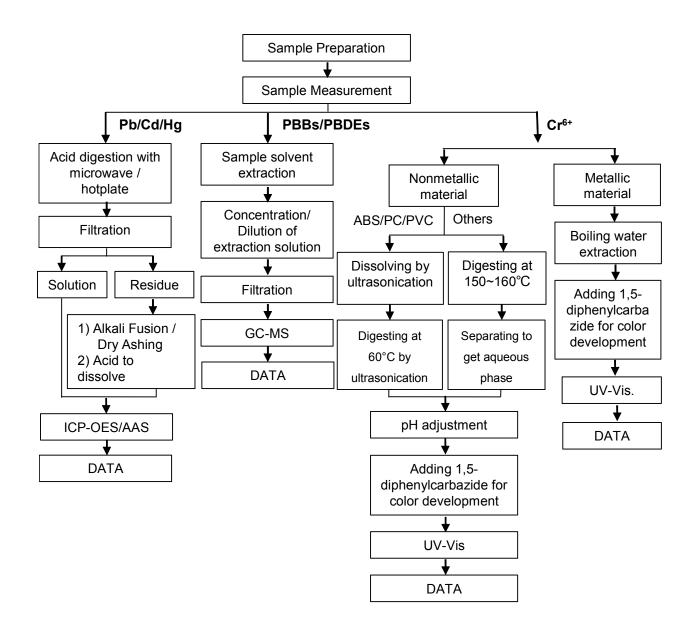
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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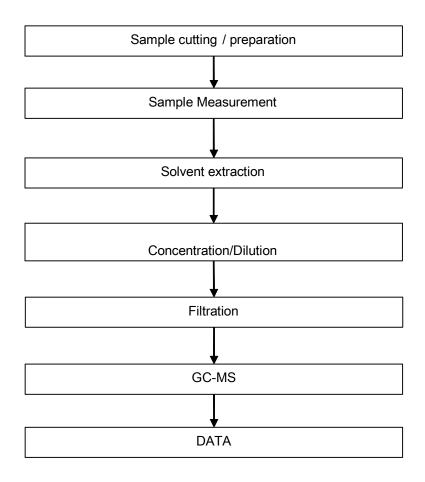
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Phthalates Testing Flow Chart





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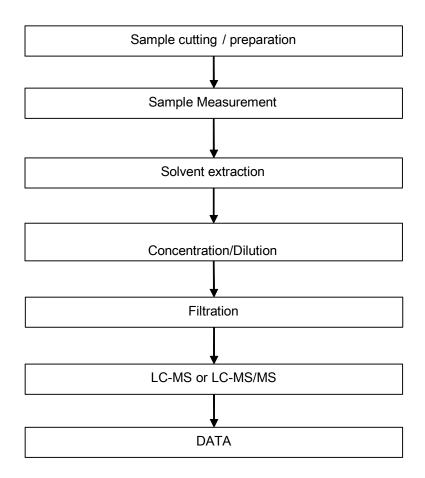
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PFOA / PFOS Testing Flow Chart





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Sample photo:



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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	出貨日期 Date		2021	/11/23
品名	2 12 12 12	標准				尺寸		態	銅岩	:編號
Article		Standa			Dimension Tenper		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%	\	\		\	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	1	\	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		nber
	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	\	١		\		\ - ·

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