承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N): /

华联威料号 (HLW P/N):U442-011B-G91018

品名规格 (PronameSpec):MICRO 5P 90度SMT 四脚防水8级

送样日期 (Delivery Date):2022/06/17

承认日期 (Acknowledge Date):2022/06/17

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 S	HI HUA LIAN WEI EI	LECTRONICS TECHNOLOG	Y CO; LTD.					
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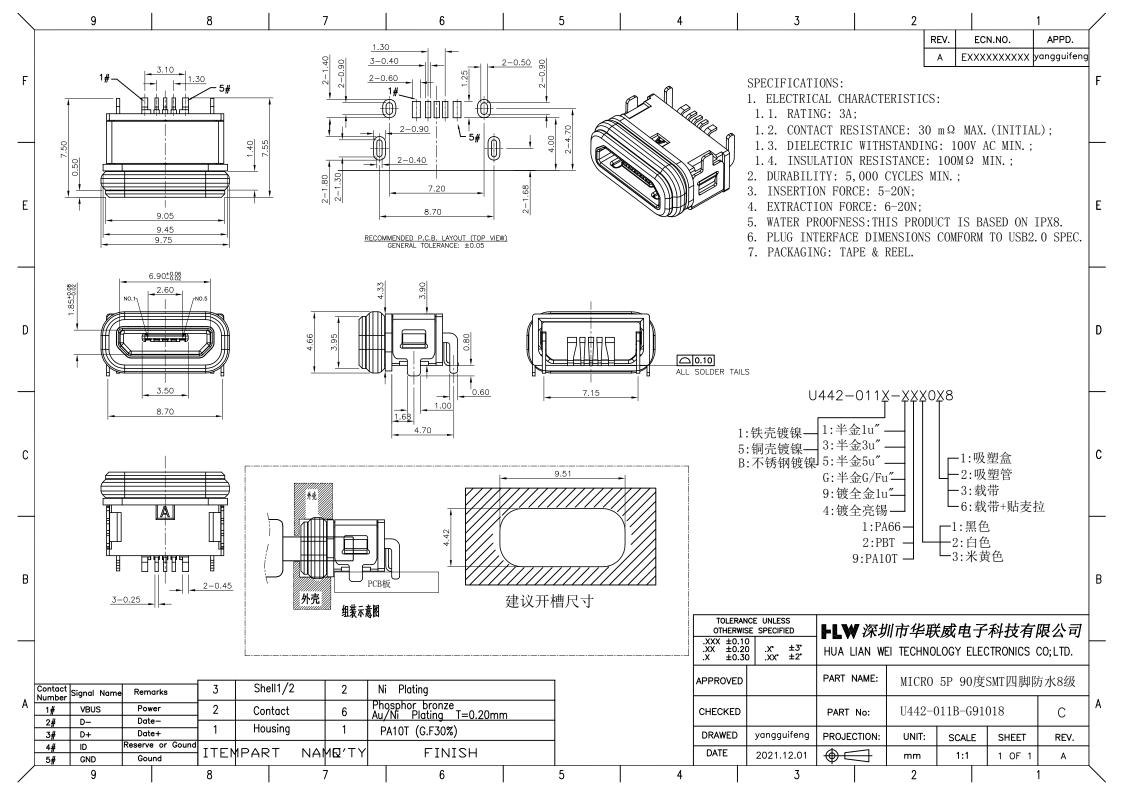
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深圳市华联威电子科技有限公司 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO., LTD

MICRO USB系列产品SPEC

- 1. Scope (范围)
- 1.1 Contents(内容)

This specification covers the performance, tests and quality requirements for the Electronics MICRO USB Connector. (此份产品规格适用于MICRO USB连接器的产品功能,测试方法及质量要求)

- 2. Requirements (要求):
- 2.1 Rating(额定条件)
- A. Voltage rating(额定电压):30V AC
- B. Current rating(额定电流):1.5A
- C. Operation Temperature Range(操作温度范围):0℃ to +50℃
- 3. Test Condition(测试条件):
- 3.1 Temperature range(温度范围):-+15℃ to +35℃
- 3.2 Humidity range (湿度范围):25% to 85%
- 4. Test Methods and Requirements:(测试方法及要求)

4. 1	est ivietilous aliu i	Requirements.(侧 四万伍汉安水)	
4.1 Exa	amination of produ	uct (产品外观)	
4.1.1	Examination of Product 产品外观	Visual 目视	No peeling off the plating deformation of the base or damage. 不得有电镀层剥落,塑料变形或破损
4.2. El	ectrical Performan	ce(电气性能)	
4.2.1	Contact Resistance 接触阻抗	(EIA-364-06B) Mated connectors, Contact: measure by dry circuit, 30 m Volts maximum,20 mA 配对的连接器, 端子:测试端子在回路中施加直流最大30mV 20mA的电流再测端子的电阻值	Initial Contact resistance Excluding conductor Resistance:50 mΩ max (Target design value)接触电阻初始值最大不能超过30 mΩ (目标设计值)
4.2.2	Dielectric Withstanding Voltage (耐电压)	(EIA-364-20C) Unmated connectors, apply 100V AC (RMS.) for 1 minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间通上100V的交流电压1分钟	1. No Breakdown or flashover 2. Leakage current:0.5mA Max 1. 不能有损坏或跳火花 2. 漏电流<0.5mA
4.2.3	Insulation Resistance 绝缘阻抗	(EIA-364-21C) Unmated connectors, apply 500V DC for 1 minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间 通上500V的直流电压1分钟	1000MΩ min(unmated) 没有配对需大于1000 MΩ
4.3Me	chanical Performa	nce(机械性能)	
4.3.1	Insertion/Withdr awal Force 插入力/拔出力	(EIA-364-13) Insertion and withdrawal speed: 25mm/minute. 插入和拔出的速度为25mm/分	Maximum insertion force 35N 插入力不超过35N(3.57kg) Withdrawal force 7N min 拔出力最小7N (0.70kg) EXTRACTION FORCE(AFTER TEST):5N MIN 拔出力(耐久测试后):5N最小

			12-61 (00-1)
4.3.2	Durability 寿命测试	(EIA-364-09) Measure contact and shell resistance after the Following. Automatic cycling:10000 cycles at 100±5 Cycles per hour. 以每小时100±5插拔次数测试10000循环后测量端子和外壳的接触阻抗	Contact Resistance 接触阻抗 Contact: Change from initial Value: 50 milliohms maximum. 端子:从初始值开始变化量小于50 mΩ
4.3.3	Vibration 振动	(EIA-364-28条件3) Amplitude:1.52mm P-P or 147m/s^2 {15G} Sweep time: 50-2000-50Hz in 20 minutes. Duration: 12 times in each (total of 36 times) X, Y, Z, axes. Electrical load DC 100mA current shall be flowed during the test.(ANSI/EIA-364-28 Condition III) 在直流100毫安通电状态下测试,在X,Y,Z垂直3方向上,频率50-2000-50赫兹(加速度往复20分钟),全振幅1.52mm P-P或147 m/s^2 {15G},每轴12回计36回	Appearance: No damage 外观:无损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value:50mΩ Max. 端子:从初始值开始变化量小于50mΩ 间断性:不超过1微秒
4.3.4	Physical shock 冲击性	(EIA-364-27条件A) Pulse width: 11msec Waveform: Half-sine 490m/s²(50G)3 strokes in each X, Y, Z axes. (ANSI/EIA-364-27 condition A) 周期: 11msec 冲击波形: 正弦半波490m/s²(50G)3 循环在X, Y, Z 轴	Appearance: No damage 外观:无损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于50mΩ Discontinuity: 1μ sec Max. 间断性:不超过1微秒
4.4 En	vironmental Perfo	rmance	
	Thermal shock	EIA-364-32C条件1)	Appearance: No Damage.
	test 冷热冲击	10 cycles of: a)-55±3℃ for 30 minutes b) +85±3℃ for 30 minutes 10个循环, a)-55±3℃ 30 分钟 b) +85±3℃ 30 分钟	外观:没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于50mΩ
4.42	Solder ability 焊锡性	(EIA-364-52) To be sipped in the solder bath 245±5℃ Coverage for 3 seconds. 将焊锡脚浸在245±5℃的锡炉中<3秒	The inspected area of each lead must have 90% solder coverage minimum 表面粘锡面积不少于90%
4.43	Humidity 恒温恒湿	(EIA-364-31B) (A) Mate connectors together and perform the test as follows 配对的连接器测试条件 Temperature: +25℃ to +85℃(温度: +25℃到+85℃) Relative Humidity: 90% to 95%(相对湿度: 90%到95%) Duration:4 cycles(96 hours) (持续时间: 4个循环共96小时) Upon completion of the test, specimens shall be conditioned ambient room conditions for 24 hours, after which the specified measurements shall be performed. 试验完成后,样品放置于室温条件中24小时后再进行测试	Appearance: No Damage 外观,没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于50mΩ
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	上

		(EIA-364-31B)	Appearance: No Damage
		(B) Unmated each connector and perform the	外观,没有损坏
		test as follows.	
		没有配对的连接器测试条件	Conform to item of dielectric withstanding Voltage
		Temperature: +25℃ to +85℃(温度: +25℃到	and Insulation Resistance.
		+85°C)	符合耐电压及绝缘阻抗要求
		Relative Humidity: 90% to 95%(相对湿度: 90%	
		到95%)	
		Duration:4 cycles(96 hours) (持续时间:4个循	
		环共96小时)	
		Upon completion of the test, specimens shall be	
		conditioned ambient room conditions for 24	
		hours, after which the specified measurements	
		shall be performed.	
		试验完成后,样品放置于室温条件中24小时	
		后再进行测试	
4.44	Salt Spray	EIA-364-26B)	No detrimental corrosion(Terminal solder tail
	盐水喷雾	Temperature: 35±2℃ 温度: 35±2℃	unrequested)
		Concentration for salt: 50% 盐水浓度: 50%	产品无氧化,锈蚀(端子焊脚镀锡处不作要求)
		(1)Duration: 24H 持续时间: 24小时	
		Condition(条件):	Contact Resistance 接触阻抗
		Contact plated gold more than 15u" (include 15	Value 50mΩ Max
		$\mathbf{u}^{\prime\prime}$),and the material of shell for copper alloy,	value 50mΩ Max
		or stainless.	
		端子镀金厚度大于等于15 u"且壳体材质是	端子: 从初始值开始变化量小于50mΩ
		铜合金或是不锈钢	
		(2) Duration: 12H 持续时间: 12小时	
		Condition(条件):	
		Contact plated gold less than 15 μ'' ,and/or the	
		material of shell for steel	
		端子镀金厚度小于15u″且/或壳体材质是铁	
		圳] 饭並序及介] ISU	
115	Cold resistance	(EIA-364-17B)	Appearance: No Damage.
7.75	(Unmated)	Unmated connectors and expose to -25±3℃ for	外观:没有损坏
		•	外观:仅有项项 Contact Resistance 接触阻抗
	冷阻抗	250 hours. Upon completion of the exposure	
		period, the test specimens shall be conditioned	Contact: Change from initial
		at ambient room conditions for 1 to 2 hours,	Value 30mΩ Max
		after which the specified measurements shall be	
		performed.	端子:从初始值开始变化量小于50mΩ
		没配对的连接器放置于-25±3℃温度中250小	
		时,当完成实验后,样品放置一般环境中1到	
		2小时后 左进行测试	
4.46	Heat resistance	(EIA-364-17B)	Appearance: No Damage.
	(Unmated)	Mated connectors and expose to $85\pm2^{\circ}\mathrm{C}$ for 250	外观:没有损坏
	、 热阻抗	hours. Upon completion of the exposure period,	A P A P A P A P A P A P A P A P A P A P
		the test specimens shall be conditioned at	Contact: Change from initial
		ambient room conditions for 1 to 2 hours, after	Value 50mΩ Max
			Value Sollisz Ivian
		which the specified measurements shall be	端 之 - 月知极估工极态也是太王 5 0 0
		performed.	端子:从初始值开始变化量小于50mΩ
		配对的连接器放置于85±2℃温度中250小时,	
		当完成实验后,样品放置一般环境中1到2小	
		-1 - 1.11 / -)FIL D	

	Thermal Aging 高温老化	(EIA-364-31B,Condition 4, Method A)Unmated connectors and expose to +85±2℃ for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 没配对的连接器放置于+85±2℃温度中250小时,当完成实验后,样品放置一般环境中1到2小时后,在进行测试	Appearance: No Damage. 外观:没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于50mΩ
4.4.8	Resistance to Soldering Heat	for wave soldering: mil-std-202f, method 210 A, test condition B 波峰焊: mil-std-202f, method 210 A,试验条件B Pre-heat:80℃, 60 Seconds 预热:80℃, 60秒 Temperature:260±5℃ 温度:260±5℃ Immersion duration:10±1 sec. 浸泡时间:10±1秒。 for manual soldering: 手动焊接: mil-std-202f, method 210 A, test condition A Pre-heat:No预热:没有Temperature:350±10℃温度:350±10℃ Immersion duration:3.5±0.5 sec.浸泡时间:3.5±0.5秒	No physical damage shall occur. 不可有损坏

Note 1: Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2

说明1: 测试要求不能有物理损坏,测试依据表格二的顺序进行

3.Product Qualification And Regualification Test:产品测试顺序表 Figure 2

Test or Examination								Tes	t Group					
	Α	В	С	D	E	F	G	Н		J	K	L	М	N
						Test	Seque	nce						
4.1.1.Examination of Product 产品外观	1,9	1,3	1,5	1	1,5	1,5	1,5	1,3	1,5	1,5	1,5	1,5	1,5	1
4.2.1.Contact Resistance 接触阻抗	2,8		2,4		2,4	2,4	2,4		2,4	2,4	2,4	2,4	2,4	
4.2.2.Dielectric Withstanding Voltage	3,7													
4.2.3.Insulation Resistance 绝缘阻抗	4,6													
4.3.1.Insertion/Withdra wal force 插拔力		2												
4.3.2.Durability 寿命测 试			3											
4.3.3.Vibration 振动性					3									
4.3.4.Physical shock 冲 击性						3								
4.4.1.Thermal shock test 冷热冲击							3							
4.4.2.Solderability 焊锡 性								2						
4.4.3.Humidity 恒温恒 湿	5								3					
4.4.4.Salt Spray 盐水喷 雾										3				
4.4.5.Cold resistance 冷 阻抗											3			
4.4.6.Heat resistance 热 阻抗												3		
4.4.7.Thermal Aging 高 温老化													3	
4.4.8.IR-reflow 回流焊 测试														2
NO. of Test samples(Min.) 测试样	5	5	5	5	5	5	5	5	5	5	5	5	5	5

NOTE 2: (a) Numbers indicate sequence in which tests are performed.

(b) Discontinuities shall not take place in this test group, during tests.

说明 2: (a)测试依照矩阵要求数量进行。

(b)在测试中,群组测试不能间断

核准: 唐竹君

制作人: 覃裕华



深圳市华联威电子科技有限公司

SHENZHENHUALIANWEIELECTRONICS CO., LTD.

測試報告

TEST REPORT

			TEST I	CEI OILI								
產品名稱 Part Name	MICRO 5P 90	度SMT 四脚防水	測試日期 Date o	2022. 06. 16– 2022. 06. 17		報告編號 Report NO.		MD20220617-01				
產品型號 Part Name	U442-011B	-G91018	樣品數量 Qua	樣品數量 Quantity		PCS	測試環境 Date of Testing		濕度 Temp:18 [~] 21C 相對濕度			
一. 電性測記	t electrical test	Γ		'								
序號	測試項目	測試條件 Testing	測試設備	規格		測試記錄		g Result	-	判定 Judge		
NO.	Testing Item	Conditions	Testing Equipments	SPEC	1	2	3	4	5	OK	NG	
1	接觸阻抗	2 mA	直流低電阻 測試儀	50 mΩ Max	19.36 mΩ	18.0 5 mΩ	18. 62 m Ω	19. 55 mΩ	18.53 mΩ	v		
2	絕緣阻抗	500 VDC	絕緣電阻測 試儀	100 mΩ Min.	Pass	Pass	Pass	Pass	Pass	V		
3	耐壓測試	100V 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	上測試 MECHANICAL	TEST										
序號	測試項目 Testing	測試條件 Testing	測試設備 Testing	規格	:	測試記錄	k Testin	g Result	5	判定 Jud		
NO	Item	Conditions	Equipments	SPEC	1	2	3	4	5	OK	NG	
4	插入力	每分钟 25±3mm 的速度	插拔力計	35N Max.	16N	13N	15N	15N	16N	V		
5	拔出力	每分钟 25±3mm 的速度	插拔力計	7N Max	OK	OK	OK	OK	OK	V		
6	锁口保持力	60N Min	吊重测试机	不得发生 物 理损坏	OK	OK	OK	OK	OK	V		
7	耐久性	测试速度:每分钟10到20个循 环,测试次	插拔力計	不得发生 物理损坏	OK	OK	OK	OK	OK	V		
三. 环境特性	上测试 ENVIRONMENT	AL TEST								•	•	
序號	測試項目	測試條件 Testing	測試設備 Testing	規格		測試記錄	錄Testing Result		-	判定	Judge	
NO	Testing Item	Conditions	Equipments	SPEC	1	2	3	4	5	OK	NG	
9	冷热冲击	温度-55±3°C 温度 85±3C 持 续时间 10H	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- 25±85C,持续 时间:4aw	湿温循环机	最大接触 阻 抗 30m Q	OK	OK	OK	ОК	ОК	V		
11	盐雾试验	温度:35±2C 12 小时	盐雾试验箱	最大接触 阻 抗 50m Q	OK	OK	OK	OK	OK	V		
12	可焊性	焊锡温度: 245±5C	熔锡炉	沾锡面积 达 95%以 上	ОК	OK	OK	OK	OK	V		
13	焊接耐热试验	260±5C 10 秒	工业烘烤箱	不得发生 物理损坏	OK	OK	OK	ОК	ОК	V		
	宗合判定 「JUDGMENT		■合格(Accept	cable)			不合格(R	eject)			•	

深圳市华联威电子科技有限公司

檢驗報告

■首	件檢驗 口入庫檢驗 口出貨檢驗 口客退檢驗 口退料檢驗 口其他			2022 ^全	₹06月17日	日 版次:A1							
料號	U442-011B-0	G91018	制令	單號		/	送檢.	單位	I	程部	首件	製作者	裝配
品名	MICRO 5P 90		客戶代號			/	批	量		1	送檢時間		1
	脚防水8级		台厂	ן לשני		, 	數	量	5	PCS	確詞	忍時間	1
	抽樣標準			■單	次	□雙次		抽木	羊数	AQL	CRI:0	MAJ:0.40	MIN:0.65
	MIL-STD-105H	E(II)		正常		嚴	減量	(5P	CS)	ACC/REJ	0	/	/
不	良数:	CRI (/) N	MAJ (/) M	IIN (/)	不良	學率(%)	/
NO.	檢驗項目	檢測		檢	驗記	錄		品管	判定	CRI	MAJ	MIN	備注
NO.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	CKI	MAJ	IVIIIN	
	7.50±0.20	D	7.52	7.53	7.55	7.53	7.52	√					
	9.75±0.20	D	9.78	9.76	9.75	9.74	9.75	√					
	6.90+0.06/-0.02	D	6.93	6.95	6.94	6.95	6.93	√					
	1.85+0.08/-0.02	D	1.86	1.83	1.84	1.82	1.84	√					
	8.70±0.20	D	8.74	8.75	8.73	8.75	8.76	√					
	1.68±0.20	D	1.64	1.65	1.66	1.64	1.67	√					
	4.70±0.20	D	4.72	4.75	4.73	4.72	4.75	√					
	1.00±0.20	D	1.02	1.03	1.04	1.02	1.03	√					
	7.15±0.20	D	7.12	7.15	7.13	7.12	7.12	√					
檢驗	檢驗依據: ■<<工程圖紙>>			檢驗規	範>>	□< </td <td>承認書></td> <td>·></td> <td>樣品</td> <td>口其它</td> <td></td> <td></td> <td></td>	承認書>	·>	樣品	口其它			
檢測	儀器:A游標卡尺	B千分尺	C厚薄	儀 D投	影鏡 E	放大鏡	F顯微鏡	滰 G錫	爐 H	插拔力器	I間位尺	L J其它	
品保	• •	■合材	格Acce	ept [□退貨F		□特	 等采W	aive	□挑選	<u></u> §Sort		
核 准 APP		欠	2.必锋			核 HK		/		檢驗 INSPI		但	3芬

保存期限:三年 保存部門: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:MICRO 5P 90度SMT四脚防水(端子)		版次:A.0
电镀规格:Ni40u", Sn40u", Au G/Fu"	日期:2022-05-25	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	40u"MIN	60. 5u"	OK	2022/5/25	10:20:15
2	40u"MIN	58. 3u"	OK	2022/5/25	10:20:17
3	40u"MIN	67. 5u"	OK	2022/5/25	10:20:19
4	40u"MIN	62. 4u"	OK	2022/5/25	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	40u"MIN	75. 3u"	OK	2022/5/25	10:25:10
2	40u"MIN	74. 7u"	OK	2022/5/25	10:25:12
3	40u"MIN	85. 9u"	OK	2022/5/25	10:25:14
4	40u″MIN	72. 4u"	OK	2022/5/25	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	0.55u"	OK	2022/5/25	10:30:32
2	0.5u"MIN	0. 53u"	OK	2022/5/25	10:30:34
3	0.5u"MIN	0. 58u"	OK	2022/5/25	10:30:36
4	0.5u"MIN	0.59u"	OK	2022/5/25	10:30:38

核准: 欠必锋 审核: 刘联英 检验员: 但芬

FLWCONN® 深圳市华联威电子科技有限公司 电镀报告表

品名: MICRO 5P 90度SMT 四脚防水(外壳)		版次:A.0
电镀规格:Ni:50u″ min	日期:2022-5-14	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	2022/5/14	10:42:14
2	50u"min	57. 6u″	OK	2022/5/14	10:42:16
3	50u"min	56. 4u"	OK	2022/5/14	10:42:18
4	50u"min	52. 5u″	OK	2022/5/14	10:42:20

核准: 欠必锋 审核: 刘联英 检验员: 但芬

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-1216
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL 010 1210
客户	/	试验起始日期	2022年06月16日 20:00 时起
谷厂	/	DATE	2022年06月17日 08:00 时止
样品名称	MICRO 5P 90度SMT 四脚防水	试验数量	5PCS
P/N	U442-011B-G91018		

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)

00233000 000 = 0	madinization to same of discin confident pr	oddoo z dae o doo op odo a o o
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

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	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(Ra(u 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

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



材质证明书(2020/A) MATERIAL CERTIFICATE

生产	厂家	S	SHNZHEN	CITY	XINQIA	METAL	PRODU	ICTS C	O. LTD	生产编号	B201	91101	开立日期 Issue Date	2019.11、5	证明书编号 Certificate No	20191105-0
钢种	名称			SUS	304	1\2H				订单编号 Order No	J	IS	依据规范 By Standard			
项目 Item	钢卷 Coi	编号 I No	Thic	(mm) kness		(mm) idth	长 Ler	度 ngth	数量 Quant	重量(K Weight(成品表	面加工			
1 2 3 4 5 6			0	.3	29	96	CC	DIL	1	1400						
	С	Si	化学点 Mn	战份Che ₽	mical C	Cr	tion (%) Mo	N	标准 Spec	硬度 Hardness	降伏强度 (N/mm²) Yield stress	引张强度 (N/mm²) Tensile Stress	伸长率(%) Elongation	弯曲试验 Bend Test	
标准 Spec	0.080 max	0.750 max	2.000 max	0.045 max	0.030 max	18.00 20.00	8.00 10.50			试片编号 Specimen	270-290HV	865 min	1059 min	-		
1 2 3 4 5 6	0.042	0.320	1.180	0.031	0.006	18.03	8.01			20140328-01	270	497	870	东莞	OK	

可能与此表中所列出的数据有所不同.

Data shown are typical, For reference only, and should not be construed as maximum or minimum values for specification or for final design data. On any particular piece of material may vary from those shown herein.

Only discrepancy pls contact of within 3 days

技术部经理 Manager



Test Report No. CANEC2119174205 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: SUS304 hardware

SGS Job No. : CP21-055214 - GZ

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

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen
Approved Signatory





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Test Report Date: 22 Oct 2021 No. CANEC2119174205 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description CAN21-191742.005 SN₁ Silver-grey metal

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, Test Method: 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)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586

- (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.



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Member of the SGS Group (SGS SA)



No. CANEC2119174205

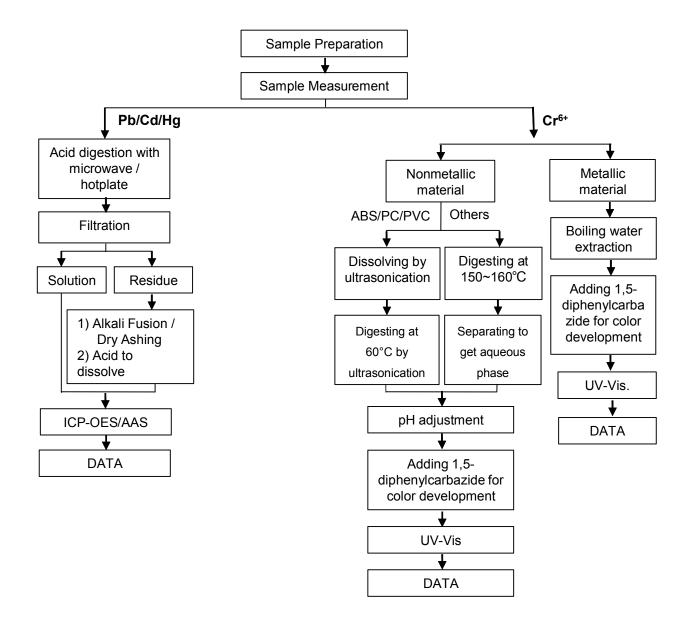
Date: 22 Oct 2021

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. CANEC2119174205

Page 4 of 4

Date: 22 Oct 2021

Sample photo:



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Test Report No. CANEC2119174202 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680 Copper shell

SGS Job No. : CP21-055214 - GZ

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

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen Approved Signatory





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Test Report Date: 22 Oct 2021 No. CANEC2119174202 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> CAN21-191742.002 SN₁ Silver-grey plated metal

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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)	1,000	mg/kg	2	50
Mercury (Hg)	1,000	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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586

- (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.



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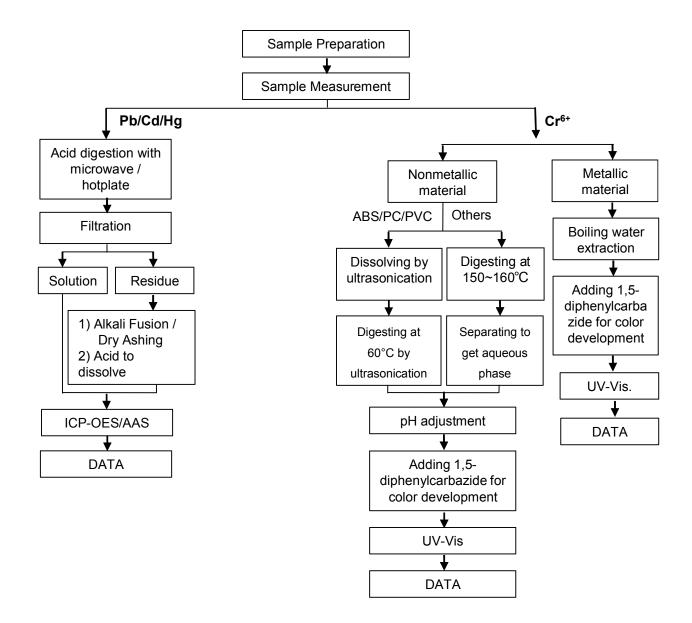
Date: 22 Oct 2021

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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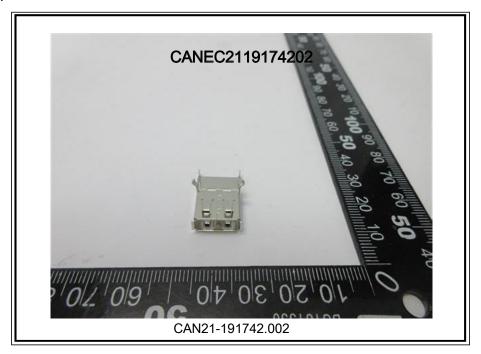


No. CANEC2119174202

Page 4 of 4

Date: 22 Oct 2021

Sample photo:



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Test Report No. CANEC2119174208 Date: 22 Oct 2021 Page 1 of 6

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: LCP plastic black color

SGS Job No. : CP21-055214 - GZ

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

Date of Sample Received: 18 Oct 2021

Testing Period : 18 Oct 2021 - 22 Oct 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

 $Bis(2-ethylhexyl) \ phthalate \ (DEHP) \ , \ Butyl \ benzyl \ phthalate \ (BBP), \ Dibutyl \ phthalate \ (DBP) \ , \ and \ Diisobutyl \ phthalate \ (DIBP) \ comply \ with \ the \ limits \ as \ set \ by$

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

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

Allie Chen

Allie Chen

Approved Signatory





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Test Report No. CANEC2119174208 Date: 22 Oct 2021 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN21-191742.008 Black plastic

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, 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>008</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	6
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	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	1,000	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
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC21191742	208	Date: 2	22 Oct 2021	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>	
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)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37,25
- (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.



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No. CANEC2119174208

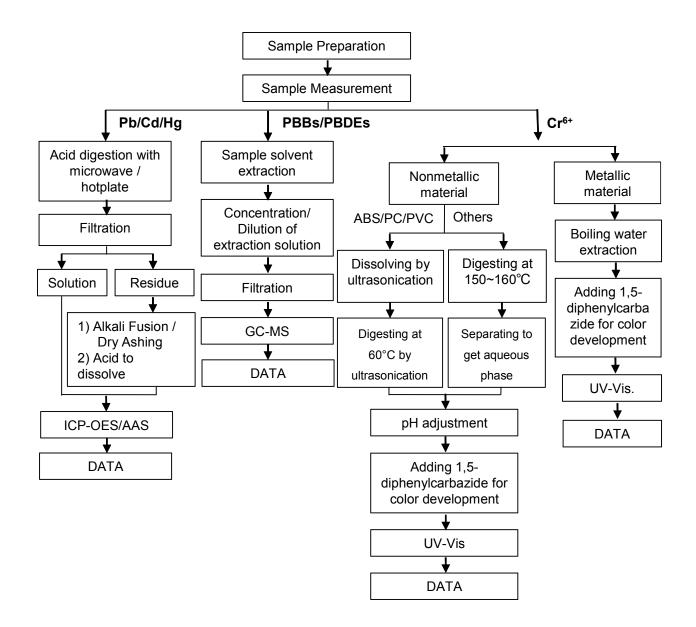
Date: 22 Oct 2021

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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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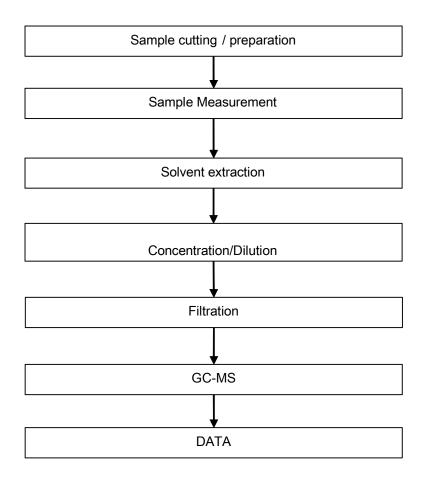
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ATTACHMENTS

Phthalates Testing Flow Chart





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Date: 22 Oct 2021

Sample photo:



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Test Report No. CANEC2117633801 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Glod(AU)

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen Approved Signatory





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Test Report Page 2 of 8 No. CANEC2117633801 Date: 27 Sep 2021

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN21-176338.001 Gold plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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)	1,000	mg/kg	2	73
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	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	1,000	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
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC21176338	01	Date: 2	27 Sep 2021	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (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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Test Report No. CANEC2117633801 Date: 27 Sep 2021 Page 4 of 8

Notes:

(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)



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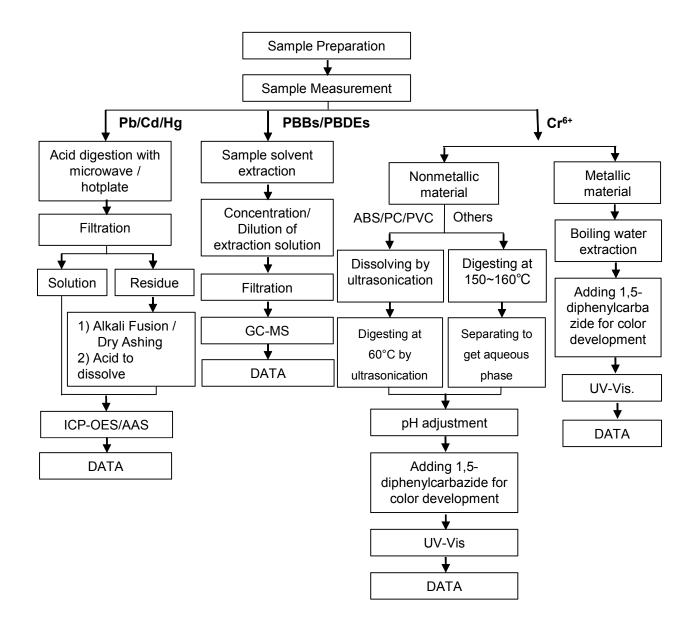
Date: 27 Sep 2021

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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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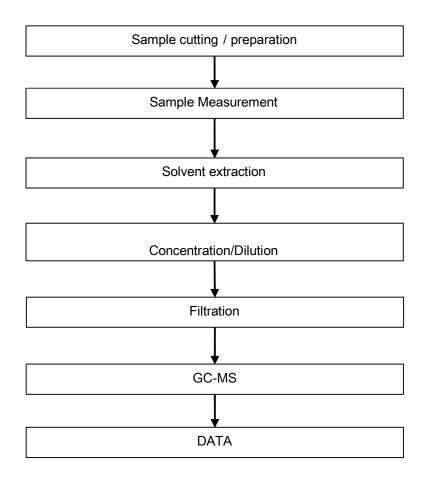
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Phthalates Testing Flow Chart





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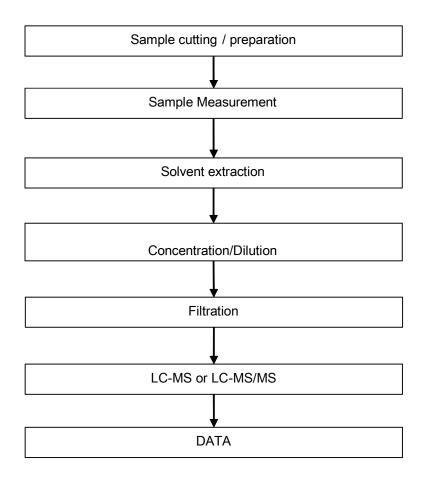
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PFOA / PFOS Testing Flow Chart





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No. CANEC2117633801

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Date: 27 Sep 2021

Sample photo:



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Test Report No. CANEC2117633802 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Bright Tin(SN)

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen Approved Signatory





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Test Report No. CANEC2117633802 Date: 27 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN21-176338.002 Silver-gray plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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.

Cadmium (Cd) 100 mg/kg 2 ND Lead (Pb) 1,000 mg/kg 2 29 Mercury (Hg) 1,000 mg/kg 2 ND Hexavalent Chromium (Cr(VI))▼ - μg/cm² 0.10 ND Sum of PBBs 1,000 mg/kg - ND Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND Pentabromobiphenyl - mg/kg 5 ND Hexabromobiphenyl - mg/kg 5 ND Octabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg 5 ND Monobromodiphenyl ether - mg/kg 5 ND	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Mercury (Hg) 1,000 mg/kg 2 ND Hexavalent Chromium (Cr(VI))▼ - μg/cm² 0.10 ND Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND Hexabromobiphenyl - mg/kg 5 ND Heptabromobiphenyl - mg/kg 5 ND Octabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg 5 ND Monobromodiphenyl ether - mg/kg 5 ND Dibromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND	Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼-μg/cm²0.10NDSum of PBBs1,000mg/kg-NDMonobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5NDPentabromobiphenyl-mg/kg5NDHexabromobiphenyl-mg/kg5NDHeptabromobiphenyl-mg/kg5NDOctabromobiphenyl-mg/kg5NDNonabromobiphenyl-mg/kg5NDDecabromobiphenyl-mg/kg5NDSum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Lead (Pb)	1,000	mg/kg	2	29
Sum of PBBs 1,000 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 1,000 mg/kg 5 ND Monobromodiphenyl ether - mg/kg 5 ND Dibromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND <tr< td=""><td>Mercury (Hg)</td><td>1,000</td><td>mg/kg</td><td>2</td><td>ND</td></tr<>	Mercury (Hg)	1,000	mg/kg	2	ND
Monobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5NDPentabromobiphenyl-mg/kg5NDHexabromobiphenyl-mg/kg5NDHeptabromobiphenyl-mg/kg5NDOctabromobiphenyl-mg/kg5NDNonabromobiphenyl-mg/kg5NDDecabromobiphenyl-mg/kg5NDSum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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 Heptabromobiphenyl - mg/kg 5 ND Octabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg - ND Monobromodiphenyl ether - mg/kg 5 ND Dibromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND	Sum of PBBs	1,000	mg/kg	-	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 Nonabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg - ND Monobromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND Tetrabromodiphenyl ether - mg/kg 5 ND	Monobromobiphenyl	-	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 Nonabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 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 Tetrabromodiphenyl ether - mg/kg 5 ND	Dibromobiphenyl	-	mg/kg	5	ND
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Sum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Nonabromobiphenyl	-	mg/kg	5	ND
Monobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Decabromobiphenyl	-	mg/kg	5	ND
Dibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Sum of PBDEs	1,000	mg/kg	-	ND
Tribromodiphenyl ether - mg/kg 5 ND Tetrabromodiphenyl ether - mg/kg 5 ND	Monobromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether - mg/kg 5 ND	Dibromodiphenyl ether	-	mg/kg	5	ND
3.3	Tribromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether - mg/kg 5 ND	Tetrabromodiphenyl ether	-	mg/kg	5	ND
	Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC2117633802		Date: 2	27 Sep 2021	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (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>002</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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Date: 27 Sep 2021

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Notes:

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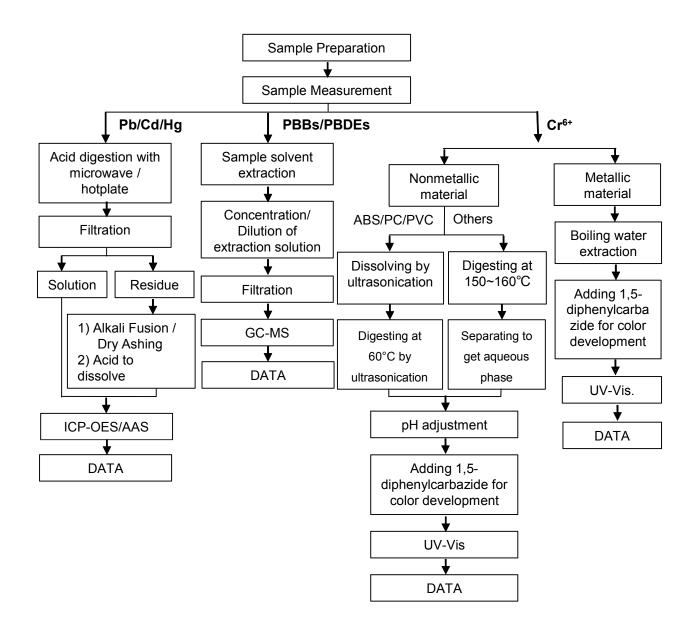
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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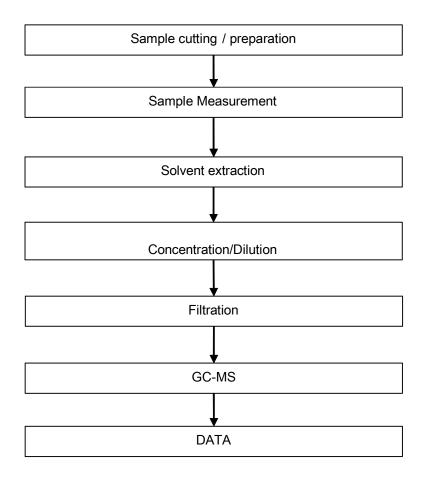
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Phthalates Testing Flow Chart





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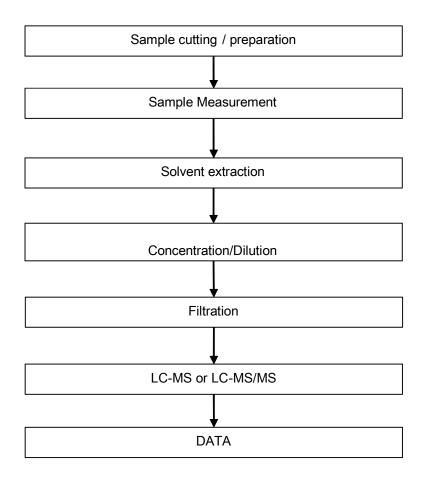
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PFOA / PFOS Testing Flow Chart





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Test Report No. CANEC2117633803 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Nickel(Ni)

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen
Approved Signatory





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Test Report No. CANEC2117633803 Date: 27 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN21-176338.003 Silver-gray plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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)	1,000	mg/kg	2	37
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	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	1,000	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
Pentabromodiphenyl ether	-	mg/kg	5	ND



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<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	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	Limit Unit - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg 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	Limit Unit MDL 003 - 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

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (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>003</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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Notes:

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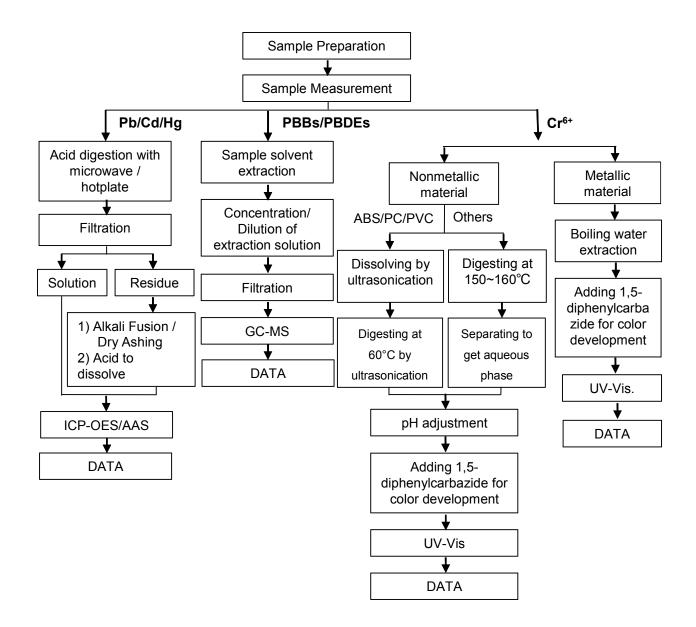
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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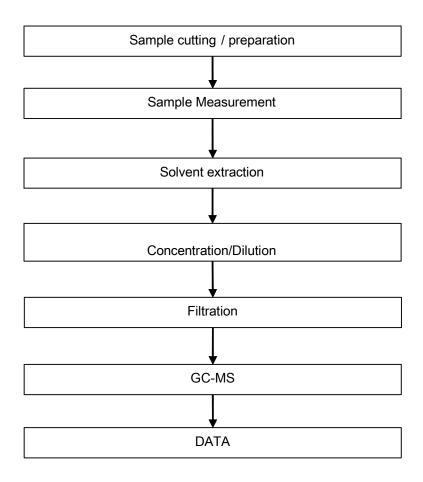


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Phthalates Testing Flow Chart





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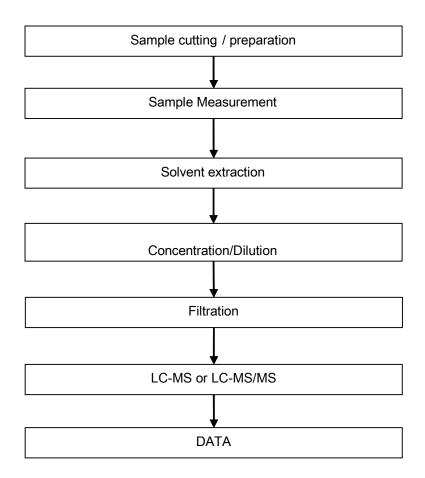
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PFOA / PFOS Testing Flow Chart





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