

承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N): /

华联威料号 (HLW P/N): U241-1011-G22017

品名规格 (PronameSpec): BF90 度沉板

送样日期 (Delivery Date):2021/12/01

承认日期 (Acknowledge Date):2021/12/07

Approved No:	客	户										
Customer												
采 购 部	品 质 部	工程部	确认									
Purchasing Dept	QC Dept	Engineering Dept	Approved By									
深均	川市华联威电-	子科技有限公司										
SHEN ZHEN S	HI HUA LIAN WEI EI	LECTRONICS TECHNOLOG	Y CO; LTD.									
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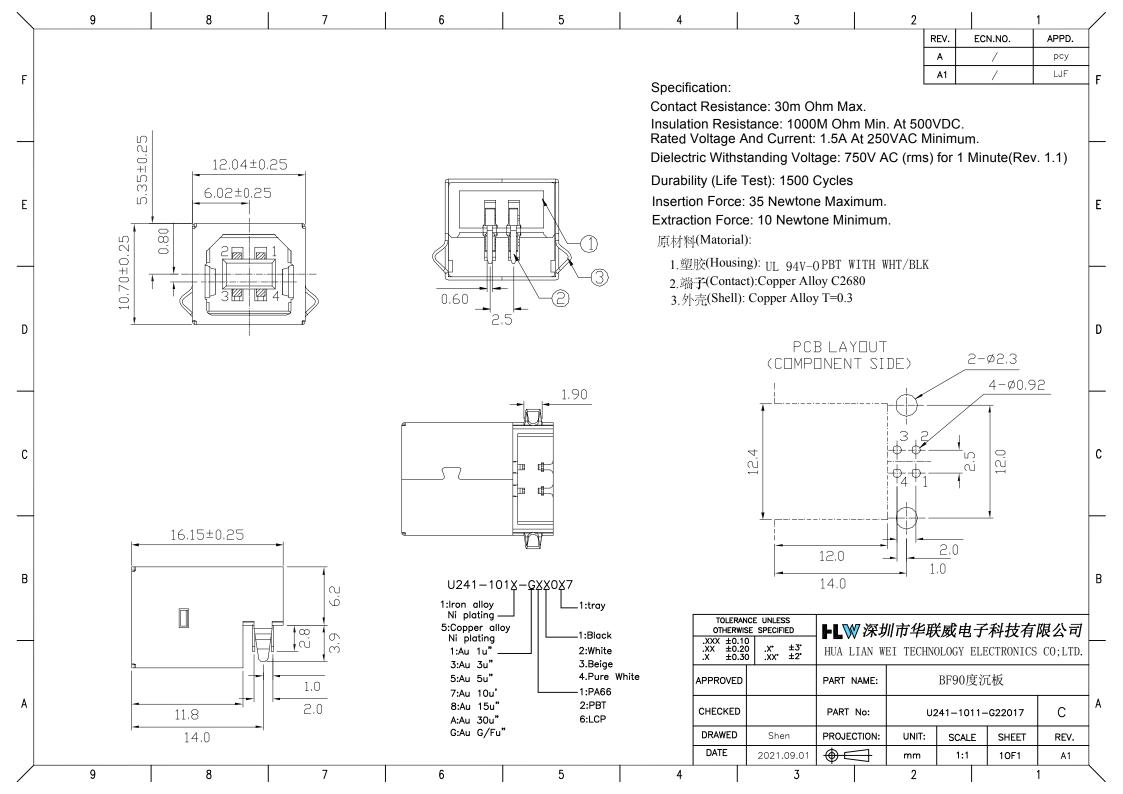


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FLWCONN®

深圳市华联威电子科技有限公司 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO., LTD

USB2.0系列产品SPEC

版本版次: C

制定日期 20200707

适用范围 通用

No peeling off the plating

deformation of the base or damage.

- 1. Scope (范围)
- 1.1 Contents(内容)

This specification covers the performance, tests and quality requirements for the Electronics USB2.0 Connector.

(此份产品规格适用于USB2.0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):

4.1.1 Examination of Visual

Product

- 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)

目视

4.1 Examination of product (产品外观)

	产品外观		不得有电镀层剥落,塑料变形或 破损
4.2. Ele	ctrical Performan	ce(电气性能)	
	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:30 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 500V 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500V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 force9.8N min 10N max 拔出力最小10N (1.02kg)
4.3.2	Durability 寿命测试	(EIA-364-09) Measure contact and shell resistance after the Following. Automatic cycling:1500 cycles at 100±5 Cycles per hour. 以每小时100±5插拔次数测试1500循环后测量端子的接触阻抗	Contact Resistance 接触阻抗 Contact: Change from initial Value: 30 milliohms maximum. 端子: 从初始值开始变化量小于 30mΩ Maximum insertion force 35N 插入力不超过35N(3.57kg) Withdrawal force9.8N min 8N max 拔出力最小8N (1.02kg)
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:30mΩ Max.

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 30mΩ Max 端子:从初始值开始变化量小于 30mΩ Discontinuity: 1μ sec Max. 间断性:不超过1微秒
4.4 Env	vironmental Perfo	rmance	
4.41	Thermal shock test 冷热冲击	EIA-364-32C条件1) 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	Appearance: No Damage. 外观:没有损坏 Contact Resistance接触阻抗 Contact: Change from initial Value 30mΩ Max 端子:从初始值开始变化量小于 30mΩ
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
4.43	Humidity 恒温恒湿	(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 30mΩ Max 端子: 从初始值开始变化量小于 30mΩ

		(EIA-364-31B) (B) Unmated each connector and perform the test as follows. 没有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 Conform to item of dielectric withstanding Voltage and Insulation Resistance. 符合耐电压及绝缘阻抗要求
4.44	Salt Spray 盐水喷雾	EIA-364-26B) Temperature: 35±2℃ 温度: 35±2℃ Concentration for salt: 50g±10g/1L 盐水浓度: 50±10g/L (1)Duration: 24H 持续时间: 24小时 Condition(条件): Contact plated gold more than 15u″ (include 15 u″), and the material of shell for copper alloy, or stainless. 端子镀金厚度大于等于15 u″且壳体材质是铜合金或是不锈钢 (2) Duration: 12H 持续时间: 12小时 Condition(条件): Contact plated gold less than 15 u″, and/or the material of shell for steel 端子镀金厚度小于15u″且/或壳体材质是铁材	Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于 30mΩ 外壳: 从初始值开始变化量小于
4.45	Cold resistance (Unmated) 冷阻抗	(EIA-364-17B) Unmated connectors and expose to -25±3℃ 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-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,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 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于 30mΩ 外壳:从初始值开始变化量小于 50mΩ

4.46	Heat resistance (Unmated) 热阻抗	(EIA-364-17B) Mated 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. 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 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于 30mΩ 外壳:从初始值开始变化量小于 50mΩ
4.47	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	Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max
4.4.8		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。	No physical damage shall occur. 不可有损坏

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 温度℃ 10s 260℃ 升温速度 4℃/s 降温速度 4℃/s 220°C 180°C 100s 升温速度 4℃/s 温度曲线以本体作 120s 洲赋点 时间s 时间。人

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 Requalification Test:产品测试顺序表 Figure 2

`	_	•				3 11 (7) (7								
Test or Examination		Test Group												
	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N
Test Sequence														
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	

4.2.2.5:	٥ -	1												
4.2.2.Dielectric	3,7													
Withstanding Voltage														
4.2.3.Insulation	4,6													
Resistance 绝缘阻抗														
4.3.1.Insertion/Withdra		2												
wal force 插拔力														
4.3.2.Durability 寿命测			3											
试														
4.3.3.Vibration 振动性					3									
, , , , , , , , , , , , , , , , , , ,														
4.3.4.Physical shock 冲						3								
击性														
4.4.1.Thermal shock							3							
test 冷热冲击														
4.4.2.Solderability 焊锡								2						
性														
4.4.3.Humidity 恒温恒	5								3					
湿														
4.4.4.Salt Spray 盐水喷										3				
雾														
4.4.5.Cold resistance 冷											3			
阻抗														
4.4.6.Heat resistance 热												3		
阻抗														
4.4.7.Thermal Aging 高													3	
温老化														
4.4.8.IR-reflow 回流焊														2
测试														
NO. of Test	5	5	5	5	5	5	5	5	5	5	5	5	5	5
samples(Min.) 测试样														
NOTE 0 () N 1 1		_			_	_	_							

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

	品名稱 Part Name	BF90 度沉板	測試日期 Date of Testing	2021-12-01 2021-12-07	R	報告編號 eport No	₽ 0.	MD	20211	MD20211213-01				
	產品型號 Part Name	U241-1011-G22017	樣品數量 Quan tity	5PCS	測試環境 Measuring Environment			濕度 Temp:18~21°C 相 濕度 R.H.:49%~57%						
-	電性測試 ELE	CTRICAL TEST												
						測試記	⊍Testir	ng Resul		定 dge				
序 號 NO.	測試項目 Testing Item	測試條件 TestingConditions	測試設備 Testing Equipment	quipment SPEC TAL 30m 0 May 1		2	3	4	5	Pass	Fail			
1	Contact resis tance	Test current:100mA max	DIGITAL MICROOHMMETER	30m Ω Max	18.36 m Ω	17.55 m Ω	18.29 m Ω	16.72 m Ω	16.18 m Ω	Р				
2	Insula tion resis tance	Test voltage:500VDC Operation stated:1min	ULTRA HIGH RESISTANCE METER	1000 m Ω Min	Pass	Pass	Pass	Pass	Pass	Р				
3	Dielec tric withstand voltage	Test voltage:500VAC Cut-off current:0.5mA Operation stated:1 min	BREAKDOWN TESTER	No discharge or flashover occur	Pass	Pass	Pass	Pass	Pass	Р				
二. 札	幾械特性測試 MI	ECHANICAL TEST												
序	NII-1-1-1-1-1	\U1\2\4\dr\/\l.	Nul-4-4-11 /#:	Tra Tea		測試記	⊍Testir	ng Resul	t	判定 Judge				
號 NO.	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail			
1	Durability test	Rat e:200cycles/hour Total: 1500cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	Р				
2	Mating Force	35 Newtons maximum at a maximum rare of 12.5mm(0.492") per minu te	Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	Р				
3	Un-Mating Force	10 Newtons minimum at a maximum rare of 12.5mm(0.492") per minu te	Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	Р				
三.環	環境特性測試 EN	VIRONMENTAL TEST												
序號	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC		測試記	∪Testir	ng Resul	t		定 dge			
NO.					1	2	3	4	5	Pass	Fail			

1	Humidi ty- Tempera ture cycle	Temperature: 40±2°C Humidity: 90-95% Dura ti on:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical dama g e	Pass	Pass	Pass	Pass	Pass	Р	
2	Heattest	Temperature: 70±2°C Dura ti on:168H	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Cold test	Temperature: -25±3°C Dura tion:168H	PROGRAM CONTROLLED TEMP. & HUM1DTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
4	Tempera ture cycling test	Temperature: 70—25C Duration:5 cycle	PROGRAM CONTROLLED TEMP. & HUM1DTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
四.物理測試 PHYSICAL TEST											
序聽	序 測試項目	測試條件	測試設備	規格		測試記録	錄 Testir	ng Resul	t		定 dge
NO.	Testing Item	Testing Conditions	Testing Equipment	SPEC	1	2	3	4	5	Pass	Fail
1	Salt spray test	Temperature: 35±2°C Concen trat ion:5 ±1 % Dura ti on:24H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	Р	
2	Resistance to soldering heat test	Temperature: 265±5°C Dura tio n:10 ±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability t est	Temperature: 265±5°C Dura tion:10 ±1 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area 295%	Pass	Pass	Pass	Pass	Pass	Р	
	判定 Result	■合格(A	CCEPT)			1 不合	格(REJ	ECT)			

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

■首件檢駁	🙀 🗆 八庫檢驗 🛛	出貨檢	驗 口名	<u>字退檢</u>	驗口	退料模	☆験 □	1其他		2 021 [⊆]	F 12 月	07日 版	ぇ次:A1	
料號	U241-1011-G220)17	制令国	單號	,	/	送檢	單位	_	[程部	首件	製作者	裝配	
品名	BF90度沉板		客戶	十號		/	批	量		1		僉時間	/	
рр Д							數	量	Ę	SPCS .		忍時間	/	
	抽樣標準			單均	√ □雙次			抽样		AQL	CRI:0 MAJ:0.4		MIN:0.	6:
M	IL-STD-105E(II)		1	常	□加備	曼	減量	(5PC	CS)	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		品管判	判定	CRI	MAJ	MIN	備注	
110.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	Citi	1017 13	171117		
	12.04±0.25	D	12.05	12.04	12.05	12.04	12.04	√						
	10.70±0.25	D	10.70	10.71	10.71	10.71	10.70	√						
	0.60 ± 0.20	D	0.58	0.59	0.57	0.58	0.59	√						
	2.50 ± 0.30	D	2.53	2.54	2.51	2.56	2.57	√						
尺	1.90 ± 0.20	D	1.91	1.90	1.89	1.89	1.89	√						
,	16.15±0.25	D	16.16	16.17	16.17	16.15	16.16	√						
寸	6.2±0.30	D	6.23	6.25	6.27	6.24	6.29	√						
測	3.9 ± 0.30	D	3.92	3.93	3.95	3.96	3.98	√						
7/1	2.8±0.30	D	2.82	2.83	2.85	2.86	2.87	√						
量	1.0±0.30	D	1.02	1.05	1.06	1.08	1.04	√						
	2.0 ± 0.30	D	2.03	2.05	2.08	2.11	2.13	√						
	11.8±0.30	D	11.82	11.81	11.83	11.82	11.82	√						
	14.0 ± 0.30	D	14.01	14.02	14.03	14.01	14.02	√						
檢驗依據:	<<工程圖紙>>	□<<;	檢驗規範	範>>	□<<7 <u>-</u>	承認書	>> []樣品		其它				
檢測儀器:A	A游標卡尺 B千分尺	C厚薄	儀 D投影	じ鏡 E	放大鏡	F顯微	鏡 G銷	易爐 H扌	番拔 に	力器 I間位	i尺 J	其它		
品保判定:		合格Ac	cept	□退2	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:BF90度沉板 (外壳)版次:A. 0电镀规格:Cu:40u"Ni:50u"MIN日期:2021/12/01页次:1/1

厂商:金和源

测试设备:CMI X-射线膜厚测试仪

1、底层电镀测试(Cu)

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	2021/12/1	19:55:05
2	40u"min	48. 5u"	OK	2021/12/1	19:55:57
3	40u"min	44. 2u"	OK	2021/12/1	19:56:48
4	40u″min	45.6u″	OK	2021/12/1	19:57:31

2、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	57. 3u″	OK	2021/12/1	19:58:12
2	50u″min	55. 6u″	OK	2021/12/1	19:59:04
3	50u″min	56. 2u"	OK	2021/12/1	20:01:44
4	50u"min	58. 3u"	OK	2021/12/1	20:02:36

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:BF90度沉板(端子) 页次:1/1 电镀规格:Ni40u", Sn40u"MIN , Au G/Fu" 日期:2021/12/01

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	58. 2u"	OK	2021/12/1	13:50:12
2	40u"MIN	60. 7u"	OK	2021/12/1	13:50:14
3	40u″MIN	55. 4u"	OK	2021/12/1	13:50:16
4	40u″MIN	61. 5u"	OK	2021/12/1	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	2021/12/1	14:10:36
2	40u"MIN	42. 4u"	OK	2021/12/1	14:10:38
3	40u"MIN	46. 7u"	OK	2021/12/1	14:10:40
4	40u″MIN	43. 1u"	OK	2021/12/1	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	2021/12/1	14:18:20
2	0.5u"MIN	0.58u"	OK	2021/12/1	14:18:22
3	0.5u"MIN	0.59u"	OK	2021/12/1	14:18:24
4	0.5u"MIN	0.57u"	OK	2021/12/1	14:18:26

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 01D 1210
客户	/	试验起始日期	2021年12月06日 08:00 时起
谷厂	/	DATE	2021年12月07日 08:00 时止
样品名称	BF90度沉板	试验数量	5PCS
P/N	U241-1011-G22017		

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: 24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

钜鼎銅材廠檢驗報告單

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

品質部

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

材 质 证 明

兹有我司东莞市邦奇塑料科技有限公司为贵司所提供的产品原料PBT不防火加纤白色,由以下物质组成:

物品名称: PBT 不防火加纤白色

	组成	CAS Number	含量%			
1	PBT 树脂	26062-94-2	60-75%			
2	玻璃纤维	65997-17-3	15-30%			
2	增韧剂	51541-08-3	5%			
3	抗氧剂	6683-19-8	0. 10-0. 20%			
4	润滑剂	110-30-5	0. 10-0. 20%			
6	其它	/	0.50%			
备注	建议成型	A、烘干温度 120-14	10℃			
		B、烘干时间 2-4 小时				
		C、成型温度 240-26	60℃			

供应商: 东莞市邦奇塑料科技有限公司

公司地址: 东莞市常平镇朗洲村工业区二路一号

制作日期: 2020.08.13

佛山市顺德区天硕贸易有限公司

Foshan Shunde Tianshuo Trade Company Limited

日期: 2021-10-19

编号: FB2110136

	检验标准的	PURCHASER: SPECIFICAT		G 314	1	e e		产品名检验情			SPCC-SD 合格			3	
产品规格 SPECIFICATION	钢卷号 COIL. NO	材质牌号 SYMBOL	净重 WEIGHT		化学		EMICAL	COMPOS	ITION		カ	学性能MEC	CHANICAL P	ROPERTIES	
MM		OF QUALITY	KG	Fe %	C %	Mn %	Si %	P ‰	S ‰	AI ‰	抗拉强度T.S Mpa	延伸率EL (%)	屈服强度Y.S Mpa	杯突 (mm)	硬度 (HV)
0. 30x1250	DL45657	SPCC-SD	7835	99	0. 031	0.17	0.07	0. 22	0. 24		361	29	259		143
0. 30x1250	DL45658	SPCC-SD	7690	99	0. 032	0. 16	0.07	0. 21	0. 22		362	30	256		141
			0												

质量控制中心:

审核: 谢和钢

制表人: 胡万银





Test Report No. CANEC2119174206 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: Nickel plating of iron

shell

SGS Job No. : CP21-055214 - GZ

Model No.: Iron 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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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com"

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District, Guangzhou,China 510663 中国・广州・经济技术开发区科学城科珠路198号 邮編: 510663

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Test Report Date: 22 Oct 2021 No. CANEC2119174206 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

CAN21-191742.006 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

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>006</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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No. CANEC2119174206

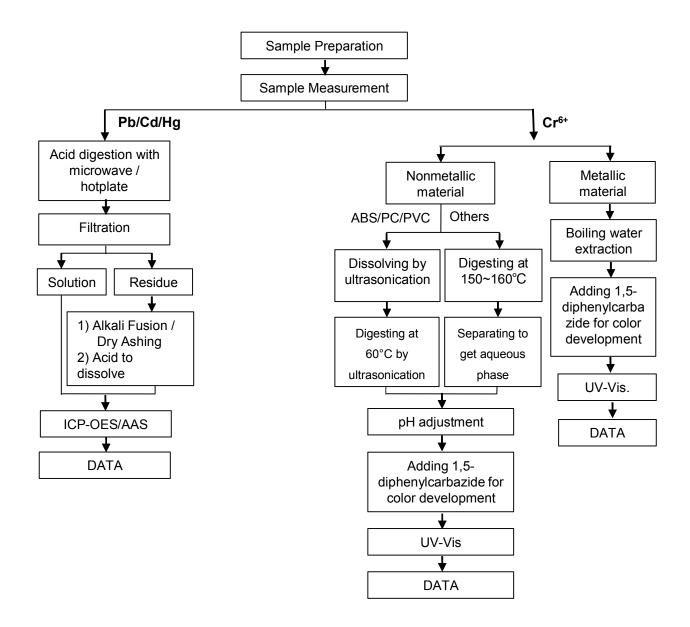
Date: 22 Oct 2021

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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. CANEC2119174206

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Date: 22 Oct 2021

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC2119174214 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: PBT white plastic

SGS Job No. : CP21-055214 - GZ

Model No. : PBT white 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. CANEC2119174214 Date: 22 Oct 2021 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN21-191742.014 Light blue 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.

Cadmium (Cd) 100 mg/kg 2 ND Lead (Pb) 1,000 mg/kg 2 7 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 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 Noabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg 5 ND <	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>
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 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 </td <td>Cadmium (Cd)</td> <td>100</td> <td>mg/kg</td> <td>2</td> <td>ND</td>	Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (CrVI)1,000mg/kg8NDSum 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	7
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 (CrVI)	1,000	mg/kg	8	ND
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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. CANEC2119174214		Date: 22 Oct 2021		Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</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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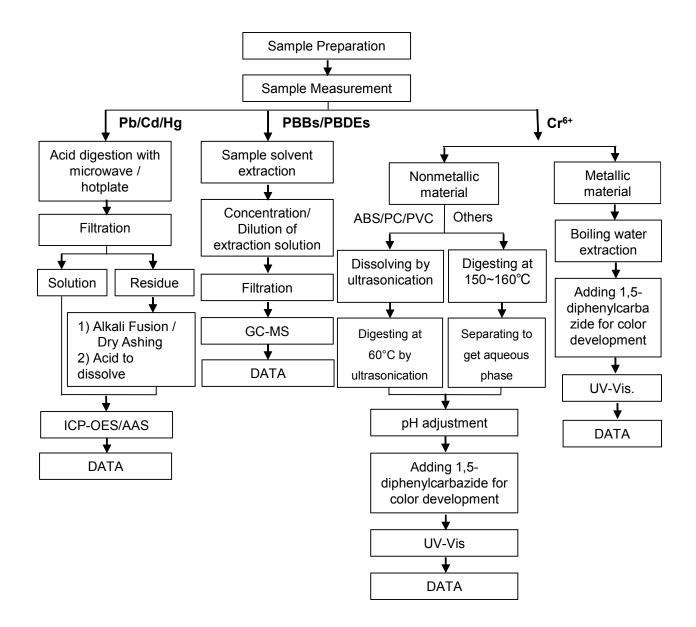
Date: 22 Oct 2021

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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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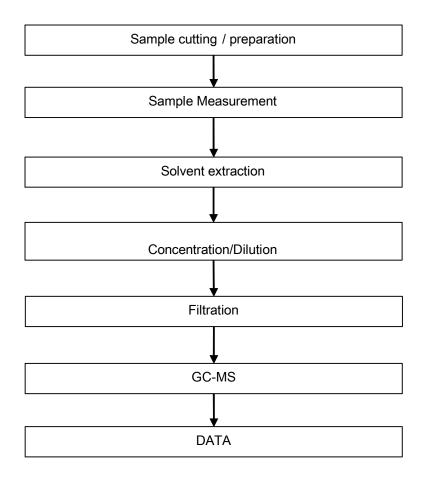
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ATTACHMENTS

Phthalates Testing Flow Chart





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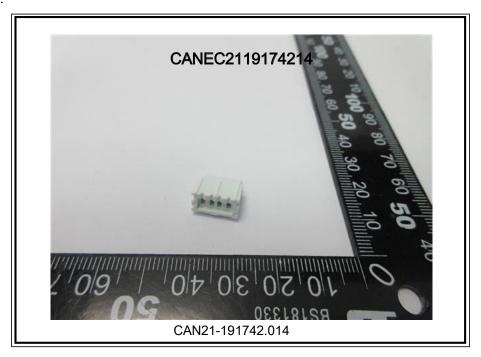
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Date: 22 Oct 2021 Page 6 of 6

Sample photo:



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Test Report No. CANEC2119174201 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 Terminal

SGS Job No. : CP21-055214 - GZ

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

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 No. CANEC2119174201 Date: 22 Oct 2021 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> CAN21-191742.001 SN₁ Silver-grey/brassy 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>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	44
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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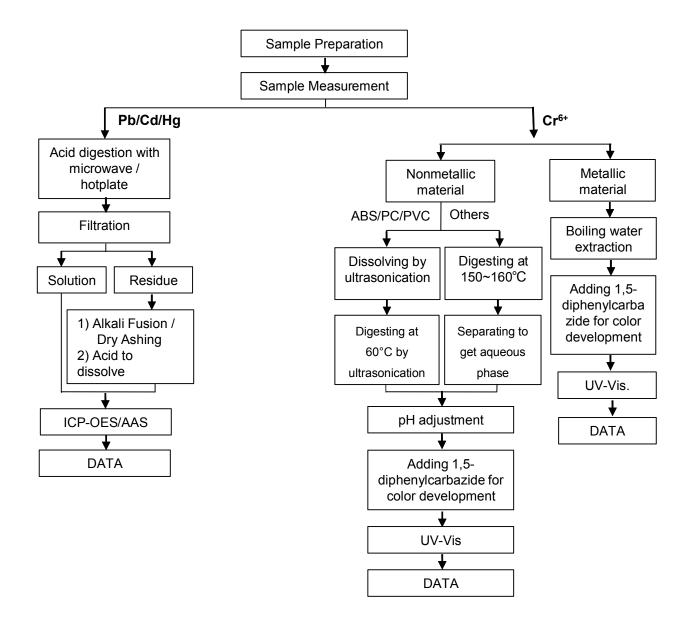
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

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





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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. CANEC2117633801		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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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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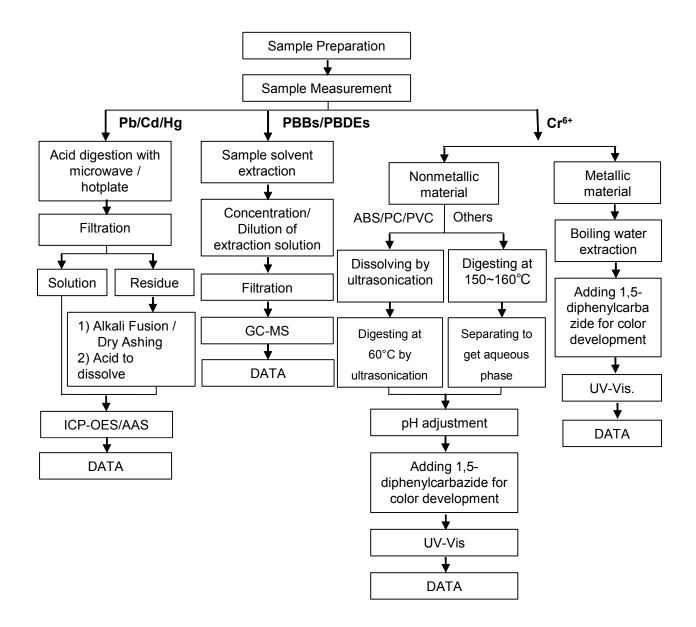
Date: 27 Sep 2021

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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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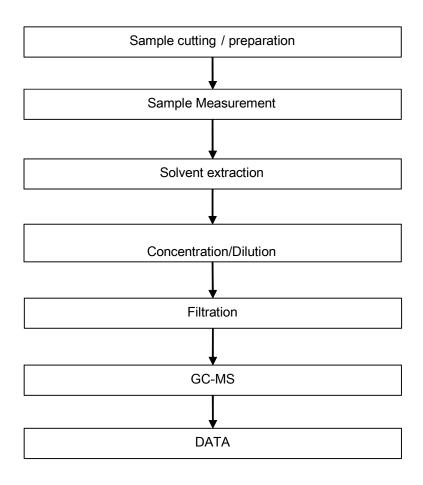


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ATTACHMENTS

Phthalates Testing Flow Chart





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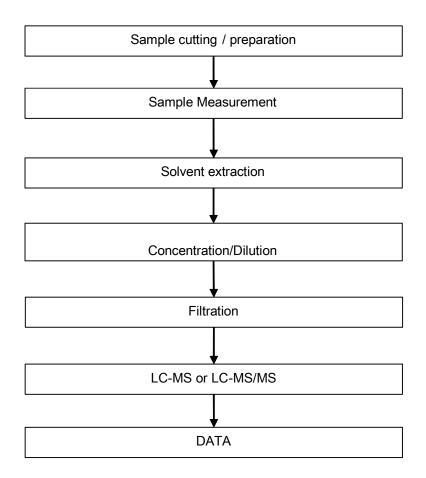
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PFOA / PFOS Testing Flow Chart





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No. CANEC2117633801

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Date: 27 Sep 2021

Sample photo:



SGS authenticate the photo on original report only

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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 Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - 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	Cadmium (Cd)	100	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	_ead (Pb)	1,000	mg/kg	2	29
Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND	vlercury (Hg)	1,000	mg/kg	2	ND
Monobromobiphenyl - mg/kg 5 ND	-lexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND
1 7	Sum of PBBs	1,000	mg/kg	-	ND
Dibromobiphenyl - mg/kg 5 ND	Vonobromobiphenyl	-	mg/kg	5	ND
	Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl - mg/kg 5 ND	Γribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl - mg/kg 5 ND	Гetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl - mg/kg 5 ND	^o entabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl - mg/kg 5 ND	-lexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl - mg/kg 5 ND	-leptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl - 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	Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether - mg/kg 5 ND	Nonobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether - mg/kg 5 ND	Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether - mg/kg 5 ND	Γribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether - mg/kg 5 ND	Гetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether - mg/kg 5 ND	^o entabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC21176338	02	Date: 2	7 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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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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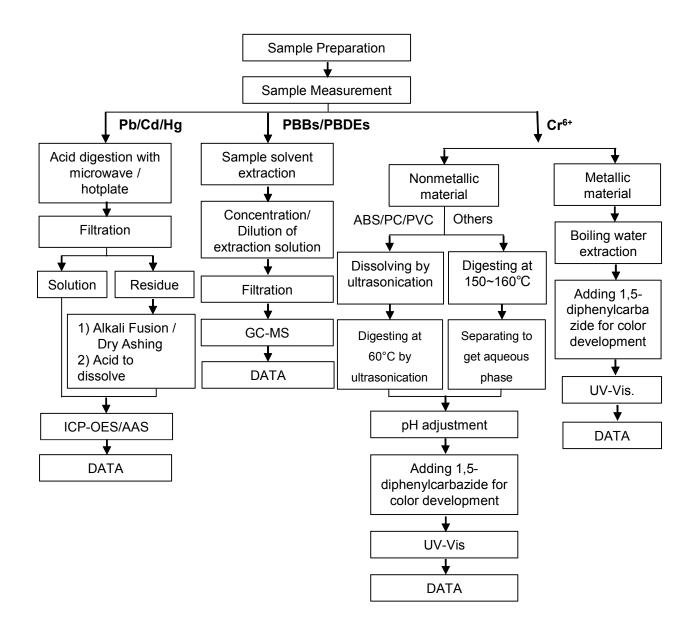
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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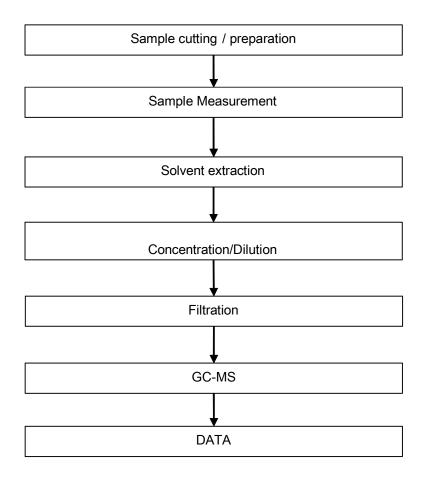
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Phthalates Testing Flow Chart





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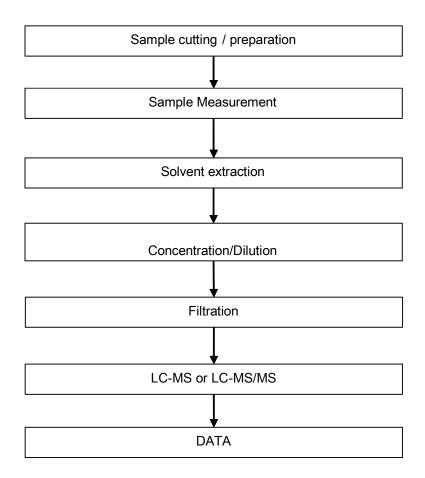
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PFOA / PFOS Testing Flow Chart





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Sample photo:



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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.

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	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</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	Cadmium (Cd)	100	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	Lead (Pb)	1,000	mg/kg	2	37
Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND	Mercury (Hg)	1,000	mg/kg	2	ND
Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND	Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Dibromobiphenyl - mg/kg 5 ND	Sum of PBBs	1,000	mg/kg	-	ND
	Monobromobiphenyl	-	mg/kg	5	ND
	Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl - mg/kg 5 ND	Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl - mg/kg 5 ND	Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl - mg/kg 5 ND	Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl - mg/kg 5 ND	Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl - mg/kg 5 ND	Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl - 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	Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether - mg/kg 5 ND	Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether - mg/kg 5 ND	Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether - mg/kg 5 ND	Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether - mg/kg 5 ND	Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether - mg/kg 5 ND	Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC2117633803		Date: 27 Sep 2021		Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</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>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:

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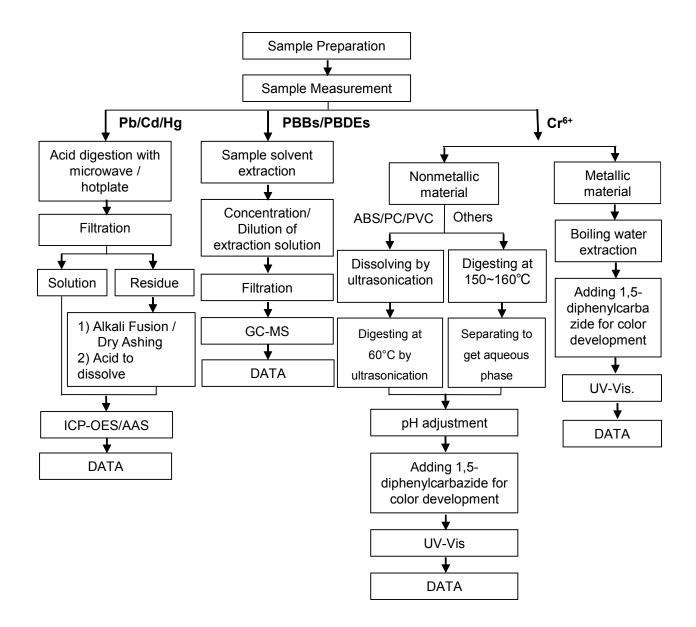
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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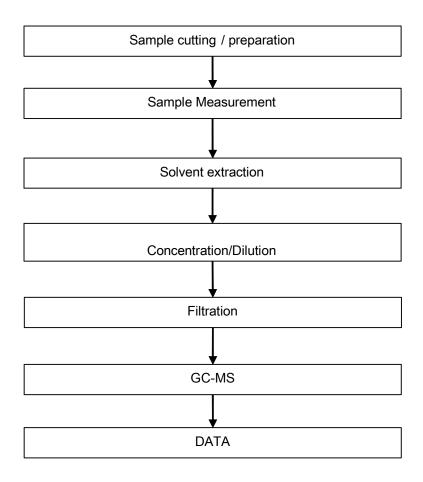


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Phthalates Testing Flow Chart





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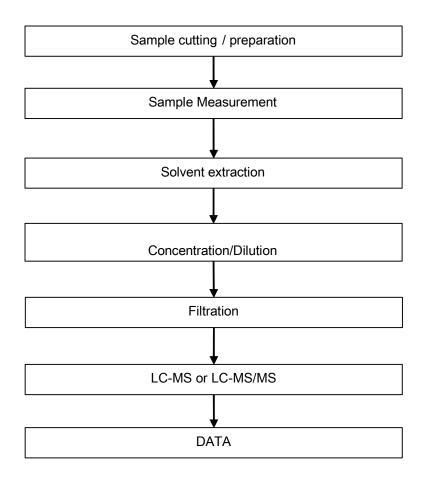
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PFOA / PFOS Testing Flow Chart





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