## **FLWCONN®**

# 承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N): /

华联威料号 (HLW P/N):U573-501B-G61038

品名规格 (PronameSpec): TYPE C 6P 立插防水 6.8 母座

送样日期 (Delivery Date):2021/12/25

承认日期 (Acknowledge Date):2021/12/25

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.											
业 务 部	品 管 部	工程部	核 准											
Sales Dept	QC Dept	Engineering Dept	Checked By											
将成英	欠必锋	魏红	唐竹君											

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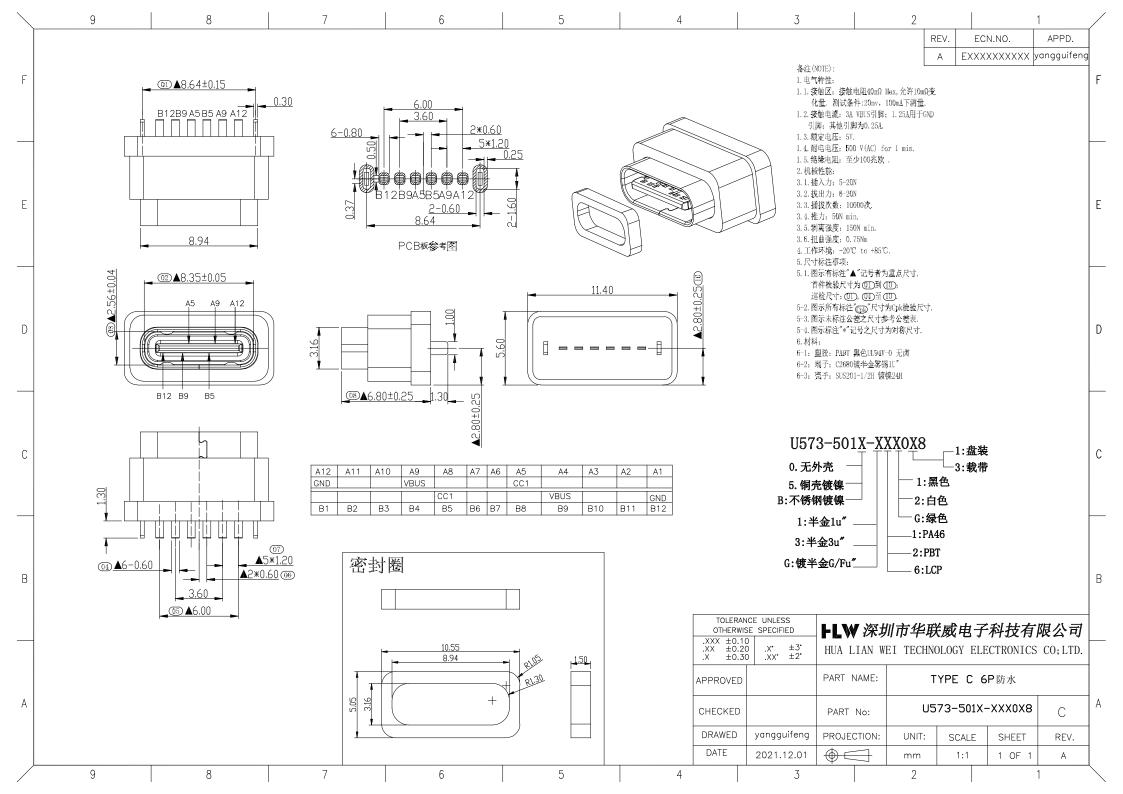


## **FLWCONN**®

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

## USB 3.1 TYPE-C系列产品SPEC

制定日期 20200707 适用范围 通用 版本版次: C

- 1. Scope (范围)
- 1.1 Contents(内容)

This specification covers the performance, tests and quality requirements for the Electronics USB 3.1 TYPE-C Connector.(此份产品规格适用于USB 3.1 TYPE-C连接器的产品功能,测试方法及质量要求)

- Requirements (要求):
- 2.1 Rating(额定条件)
- Voltage rating(额定电压):30V AC A.
- B. Current rating(额定电流):1.5A
- C. Operation Temperature Range(工作温度范围):-30℃ to +80℃
- 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 Examination of product (产品外观)

		, p = 1 = 1 () (m) ( ) = 0	
4.	Examination	Visual	No peeling off the plating
1.	of Product	目视	deformation of the base or
1	产品外观		damage. 不得有电镀层剥落,
			塑料变形或破损
4.	2. Electrical Per	formance(电气性能)	
4.	Contact	(EIA-364-06B)	40mΩ MAX
2.	Resistance	适合USB 3.1 TYPE-C嵌合;开放电压20mv以下;短路	
1	接触阻抗	电流100ma的状态下测定。	
		Mate applicable USB 3.1 TYPE-C and measure by dry	

	Dielectric
	Withstanding
4.	Voltage

(EIA-364-20C)

Unmated connectors, apply 100V AC (RMS.) for 1 minute 2. Leakage current:0.5mA Max between adjacent terminals of ground.

circuit, 20mv MAX, 100mA. 40mΩMAX

1. No Breakdown or flashover

1. 不能有损坏或跳火花

的交流电压1分钟

4. nsulation 2. Resistance 3 绝缘阻抗

2. (耐电压)

2

(EIA-364-21C)

的直流电压1分钟

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 没有配对需大于100 MΩ

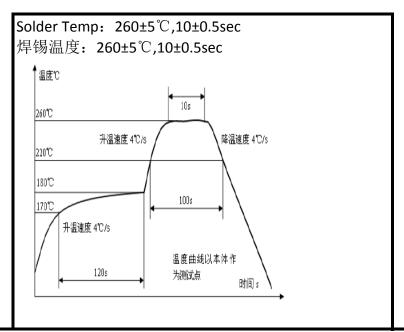
100M $\Omega$  min (unmated)

4.3Mechanical Performance(机械性能)

4.	Insertion/Wit	(EIA-364-13)	
	hdrawal	Insertion and withdrawal speed:	插入力 Insertion
1	Force	25mm/minute.	0.50kgf/MIN,2.0kgf/MAX
	插入力/拔出	插入和拔出的速度为25mm/分	拔出力 Withdrawal
	力		0.80kgf/MIN,2.0kgf/MAX
			After 10000 cycles
			0.6kgf/MIN,2.0kgf/MAX
4.	Durability	(EIA-364-09)	10000 cycles
3.	寿命测试	适合USB 3.1 TYPE-C;用每分钟12.5mm的速度,平行	
2		的插入,拔出。	
		Insert and extract applicable USB 3.1 TYPE-C at the speed	
		rate of 12.5 mm/minute.	
	Humidity-		
	Temperature		
3	cycle		
	温湿度循环		
1	Vibration	(EIA-364-28条件3)	Appearance: No damage
	振动	Amplitude:1.52mm P-P or 147m/s^2 {15G}	外观:无损坏
4	1/12-2/3	Sweep time: 50-2000-50Hz in 20 minutes.	Contact Resistance 接触阻抗
ľ		Duration: 12 times in each (total of 36 times) X, Y, Z,	Contact: Change from initial
		axes.	Value:30mΩ Max.
		Electrical load DC 100mA current shall be flowed during	端子: 从初始值开始变化量小
		the test.(ANSI/EIA-364-28 Condition III)	于30mΩ
		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	) No. 1
		振幅1.52mm P-P或147 m/s^2 {15G},每轴12回计36回	间断性:不超过1微秒
4.	Physical shock	(EIA-364-27条件A)	Appearance: No damage
	冲击性	Pulse width: 11msec	外观: 无损坏
4		Waveform: Half-sine	Contact Resistance 接触阻抗
		490m/s²(50G)3 strokes in each X, Y, Z axes.	Contact: Change from initial
		(ANSI/EIA-364-27 condition A)	Value 40mΩ Max
		周期: 11msec	端子: 从初始值开始变化量小
		冲击波形:正弦半波490m/s²(50G)3循环在X, Y, Z	于40mΩ
		轴	Discontinuity: 1μ sec Max.
			间断性:不超过1微秒
4.	4 Environmenta	l Performance	
_			

4.	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 40mΩ Max 端子:从初始值开始变化量小 于40mΩ
	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
	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 30mΩ Max 端子: 从初始值开始变化量小 于30mΩ
	Salt Spray 盐水喷雾	EIA-364-26B) Temperature: 35±2℃ 温度: 35±2℃ Concentration for salt: 5% 盐水浓度: 5% (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: 24H 持续时间: 24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	No detrimental corrosion( Terminal solder tail unrequested) 产品无氧化,锈蚀(端子焊脚镀锡处不作要求)

4.	Cold resistance (Unmated) 冷阻抗	(EIA-364-17B) Unmated connectors and expose to -25±3℃ for168 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168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
4.	Heat resistance (Unmated) 热阻抗	(EIA-364-17B) Mated connectors and expose to 85±2℃ for168 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168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
	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 40mΩ Max 端子:从初始值开始变化量小 于40m
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℃	No physical damage shall occur. 不可有损坏 Reflow welding is not applicable to PBT 回流焊不适用于PBT



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

									est Group							
Examination	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N		
					_	Γest Se	equen	ce			-					
4.1.1.Examinatio n of Product 产	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	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	3,7															
4.2.3.Insulation Resistance 绝缘	4,6															
4.3.1.Insertion/ Withdrawal force		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							3									
4.4.2.Solderabilit y 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											<b>3</b> 第 5	页,=	+6页			

4.4.6.Heat resistance 热阻												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	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: 魏红



## 深圳市华联威电子科技有限公司

## SHENZHENHUALIANWEIELECTRONICS CO., LTD.

#### 測試報告

#### **TEST REPORT**

225-01	202112	MD	or t NO.	號 Repo	報告編	2021.12.24 2021.12.25	測試日期 Date of Testing	TYPE C 6P 立插防水 6.8 母座	產品名稱 Part Name	
f11C 相對》 % f57%	emp:18 f R.H.:49%			環境 Mea nvironme		5PCS	樣品數量 Quantity	U573-501Ó-G61038	產品型號 Part Name	
								TRICAL TEST	性測試 ELEC	一•電
判定 Judge		g Result	錄 Testin	測試記						
Pass Fail	5	4	3	2	1	規格 SPEC	測試設備 Testing Equipment	測試條件 Tes ting Con di tions	測試項目 Testing Item	序 號 NO.
Р	17.53 m Ω	16.37 m Ω	15.86 m Ω	15.42 m Ω	14.77 m Ω	40 m Ω Max	DIGITAL MICRO— OHMMETER	Test current:100mA max		1
Р	Pass	Pass	Pass	Pass	Pass	100 m Ω Min	ULTRA HIGH RESISTANCE METER	Test voltage:500VDC Operation stated:1min	In sula tion resis tance	2
Р	Pass	Pass	Pass	Pass	Pass	No discharge or flashover occur	BREAKDOWN TESTER	Test voltage:100VAC Cut—off current:0.5mA Operation stated:1 min		3
								MECHANICAL TEST	械特性測試	二. 機
判定 Judge		g Result	錄 Testin	測試記						
Pass Fail	5	4	3	2	1	規格 SPEC	測試設備 Testing Equipment	測試條件 Tes ting Con di tions	測試項目 Testing Item	序 號 NO.
Р	Pass	Pass	Pass	Pass	Pass	No physical damage	LIFE TESTER FOR CONNECTOR	Ra te:200cycles/hour Total: 10000 cycles	Durability test	1
Р	Pass	Pass	Pass	Pass	Pass	No physical damage	Insertion force testing machine	5N-20Newtons maximun at a maximum rare of 12.5mm per minute	Mating Force	2
Р	Pass	Pass	Pass	Pass	Pass	No physical damage	Insertion force testing machine	8N-20N NewtNewtonso ns m minimuminimum at a maximum rare of 12.5mm per minute	Un—Mating	3
								ENVIRONMENTAL TEST	境特性測試 E	三.環
判定 Judge		g Result	錄 Testin	測試記		規格 SPEC	測試設備	測試條件	測試項目 Testing Item	序號
Pass Fail	5	4	3	2	1		resumg Equipment	resung con artions	resulty itelii	INU.
Р	Pass	Pass	Pass	Pass	Pass	No physical damage	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	Temperature: 40±2°C Dura tion :168H	Humidi ty— Tempera ture cycle	1
Р	Pass	Pass	Pass	Pass	Pass	No physical damage	OVEN	Temperature: 70±2°C Dura tion :168H	Heat test	2
88	Pass Pass Pass	Pass Pass Pass Pass	Pass Pass Pass Pass	Pass Pass Pass Pass	Pass Pass  Pass	No physical damage  No physical damage  No physical damage  規格 SPEC  No physical damage	Insertion force testing machine  Insertion force testing machine  Insertion force testing machine  Insertion force testing machine  PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	Tes ting Con di tions  Ra te:200cycles/hour Total: 10000 cycles  5N-20Newtons maximun at a maximum rare of 12.5mm per minute  8N-20N NewtNewtonso ns m minimuminimum at a maximum rare of 12.5mm per minute  ENVIRONMENTAL TEST     )	Testing Item  Durability test  Mating Force  Un—Mating Force  境特性測試  Institute  Testing Item  Humidi ty— Tempera ture cycle	NO.  1 2 3 字 號 NO.

3	Cold test	Temperature: -25 ±3°C Dura tion :168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р			
4	Tempera ture cycling test	Temperature: 70—25 C Duration:5 cycle	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	<b>No physical</b> damage	Pass	Pass	Pass	Pass	Pass	Р			
四.物	四.物理測試 PHYSICAL TEST												
序	測試項目 Testing Item	測試條件 Testing Con di tions	測試設備	規格 SPEC	Allerter testing result					1	定 dge		
NO.	resumg item	resumg con an dons	Testing Equipment	OI LO	1	2	3	4	5	Pass	Fail		
1	Salt spray test	Temperature: 35±2°C Concentration:5±1 % Duration:24H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	Р			
2	Solder ability test	Temperature: 260 土 5°CDura tio n:10 ±1	OVEN	NO physical damage	Pass	Pass	Pass	Pass	Pass	Р			
3	Solder ability test	sec Temperature: 260 ±10 C Dura tion :10 ±1 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area <u>=</u> 95%	Pass	Pass	Pass	Pass	Pass	Р			
	判定 Result	■合格(ACCI	Ε	」不合	格(REJI	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

■首件檢験	出貨檢	驗 口名	字退檢	驗 口	退料模	験 □	1其他		<b>2021</b> 生	F <b>12</b> 月	25日 版	次:A′	1	
料號	U573-501Ó-G61	038	制令	單號		/	送村	僉單位		工程部	首	牛製作者	裝	配
品名	TYPE C 6P 立插防力	K6.8母	8母 客戶代號			/ 割		量	/		送村	<b>僉時間</b>	1	
ПП	座		127)   \( \J))[		,			量		5PCS	確語	忍時間	/	
	抽樣標準			軍等	ζ [	]雙次		抽样	数	AQL	CRI:0	MAJ:0.40	MIN:(	).65
M	IIL-STD-105E(II)		正	常	□加膚	<b>漫</b> □	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	MAI	MIN	備注	E
NO.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	CKI	MAJ	MIIN		
	8.64±0.15	D	8.69	8.70	8.68	8.67	8.69	<b>√</b>						
	8.94±0.20	D	8.90	8.99	9.02	9.03	8.95	<b>√</b>						
	8.35±0.05	D	8.36	8.37	8.39	8.40	8.37	<b>√</b>						
	2.56±0.04	D	2.59	2.56	2.57	2.56	2.57	<b>√</b>						
尺	1.30±0.20	D	1.32	1.35	1.33	1.34	1.36	<b>√</b>						
寸	5.50±0.20	D	5.56	5.58	5.54	5.57	5.56	<b>√</b>						
-	5.05±0.20	D	5.06	5.09	5.10	5.08	5.09	<b>√</b>						
測	6.80±0.25	D	6.86	6.85	6.84	6.83	6.84	<b>√</b>						
量	11.40±0.20	D	11.45	11.48	11.46	11.47	11.45	<b>√</b>						
里														
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游標卡尺 B千分尺	C厚薄	儀 D投景	杉鏡 E	放大鏡	F顯微	[鏡 <b>G</b> 錢	易爐 H扌	番拔 た	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 [		Sort		

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:TYPE C 6P立插防水6.8母座(端子)		版次:A.0
电镀规格:Ni40u", Sn40u", Au G/Fu"	日期:2021-08-25	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	2021/8/25	10:20:15
2	40u″MIN	58. 3u"	OK	2021/8/25	10:20:17
3	40u″MIN	67. 5u"	OK	2021/8/25	10:20:19
4	40u″MIN	62. 4u"	OK	2021/8/25	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	2021/8/25	10:25:10
2	40u"MIN	74. 7u"	OK	2021/8/25	10:25:12
3	40u"MIN	85. 9u"	OK	2021/8/25	10:25:14
4	40u″MIN	72. 4u"	OK	2021/8/25	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	2021/8/25	10:30:32
2	0.5u"MIN	0.53u"	OK	2021/8/25	10:30:34
3	0.5u"MIN	0.58u"	OK	2021/8/25	10:30:36
4	0.5u"MIN	0.59u"	OK	2021/8/25	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:TYPE C 6P 立插防水6.8母座外壳版次:A.0电镀规格:Cu:40u"Ni50u"MIN日期:2021/9/12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	2021/9/12	19:55:05
2	40u"min	48. 5u"	OK	2021/9/12	19:55:57
3	40u"min	44. 2u"	OK	2021/9/12	19:56:48
4	40u"min	45.6u″	OK	2021/9/12	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	50. 26u"	OK	2021/9/12	19:58:12
2	50u″min	50. 28u″	OK	2021/9/12	19:59:04
3	50u″min	50. 18u″	OK	2021/9/12	20:01:44
4	50u"min	50. 13u"	OK	2021/9/12	20:02:36

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

## 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 OID 1210
客户	/	试验起始日期	2021年12月24日 20:00 时起
谷厂	/	DATE	2021年12月25日 20:00 时止
样品名称	TYPE C 6P 立插防水6.8母座	试验数量	5PCS
P/N	U573-501B-G61038		

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	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	<b></b> 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	64.32 餘量 0.0036 0.0136		\	1	١	\	合格	合格	
				機械性	質子Mechanical	Properties				
項目	結晶粒度	硬度	抗拉強度	伸長度	導電率	彎曲試驗	表面	粗度	彎	曲度
Item	Grain Size	Hardness	TensionStrength	Elongation	Electrical Conduc	Bending Test	Surface F	Roughness		mber
	Mm	Hv	Mpa	%	%IACS	180	Ra(	u m)	m	m\n
規範MAX Spec	\	170-190	490-610	\	\	\			\	
實測 Actual	\	178	574	5	\	١	\		\ \ .	

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



# 东莞市琦鑫金属有限公司

# 质量证明书

单位名称			深圳市尹	鑫达电	子有限公司									/
合同编号 钢卷	· 卷号 S201	冶炼号	号/炉号	牌号	規格 0.:		件数	重量 KG	软态,	<u>交货状态</u> 切边,冷车	1表面		产品标准	
化学成分	C	In	Si	P	S	Ni	Cr	Cu						
	0.08	9. 38	0. 32	0.02	0.006	1. 02	14. 28	1. 52						
					22	2			22					
		20	力学		it .				化学	性能		宏	观检	查
	抗拉强度 ob IIPa	延伸室 5 纵向	5 (%)	硬度 HV 230	弯曲(度)	9		晶间腐蚀	盐雾试验			尺寸外形 合格	表面质量合格	
<i>2</i>	(1) (4)				16 16	<u> </u>	<u> </u>		56			\$ 55 \$ 55	Y 20	

质量监督部门盖章:

质量管理;郑芳芳 日期: 2022.4.21



**Test Report** No. SHAEC2112761106 Date: 28 Jul 2021 Page 1 of 12

ZHEJIANG YONGJIN METAL TECHNOLOGY CO.,LTD
NO.99 CHUANGYE AVENUE,ECONOMIC DEVELOPING AREA,LANXI,ZHEJIANG,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : COLD ROLLED STAINLESS STEEL STRIP

SGS Job No.: SP21-019179 - SH

Model No. : SUS201

Main Substance : Fe,Cr

Date of Sample Received: 22 Jun 2021

Testing Period: 22 Jun 2021 - 28 Jun 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 Cadmium,

Lead, Mercury, 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 (Shanghai) Co., Ltd.

Carol Luo

Approved Signatory





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#### **Test Report** No. SHAEC2112761106 Date: 28 Jul 2021 Page 2 of 12

Test Results:

#### Test Part Description:

Specimen No. SGS Sample ID Description SN1 SHA21-127611.002 Silvery 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+AMD1:2017, IEC62321-5:2013, IEC62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, AAS, UV-Vis and GC-MS.

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



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Test Report	No. SHAEC21127611	06	Date: 2	28 Jul 2021	Page 3 of 12
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Di-2-Ethyl Hexyl 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. 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:1258637,25
- (2)▼ = 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.

#### **Halogen**

Test Method: With reference to EN 14582: 2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

#### Element(s)

Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.



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**Test Report** No. SHAEC2112761106 Date: 28 Jul 2021 Page 4 of 12

Test Item(s) **MDL** 002 **Unit** Beryllium (Be) mg/kg 5 ND Antimony (Sb) mg/kg 10 ND

#### Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
PFOS^	1763-23-1	mg/kg	10	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	10	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	10	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	10	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	10	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA) and its salts+	-	mg/kg	10	ND

#### Notes:

(1)^ 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)

(2)+ PFOA refer to 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);



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No. SHAEC2112761106

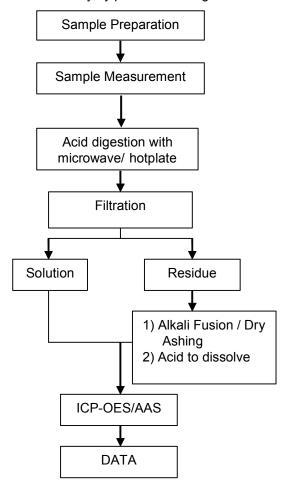
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Date: 28 Jul 2021

#### **ATTACHMENTS**

#### **Elements (IEC62321) Testing Flow Chart**

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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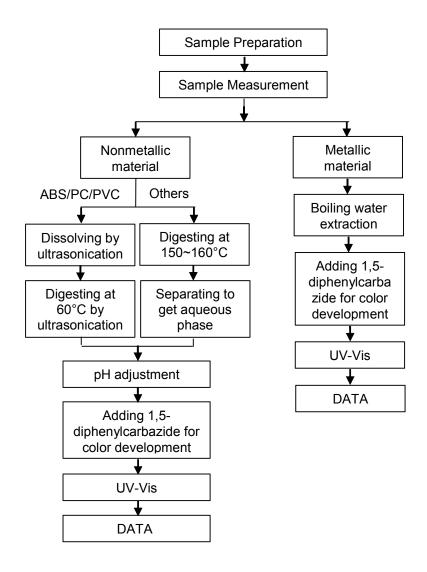
No. SHAEC2112761106

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Date: 28 Jul 2021

#### **ATTACHMENTS**

#### **Hexavalent Chromium (Cr(VI)) Testing Flow Chart**





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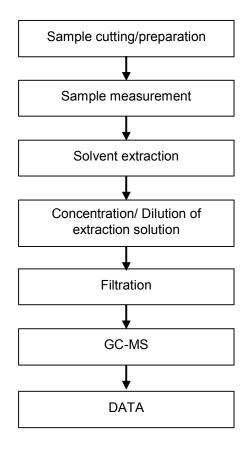
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No. SHAEC2112761106

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Date: 28 Jul 2021

#### PBBs/PBDEs Testing Flow Chart





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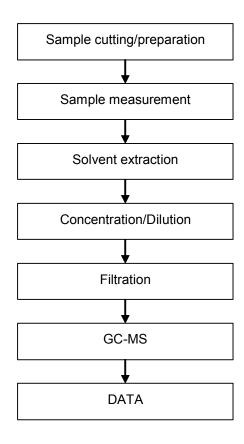
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#### **Phthalates Testing Flow Chart**





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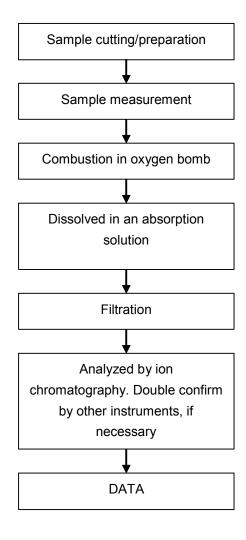
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#### Halogen Testing (oxygen bomb) Flow Chart





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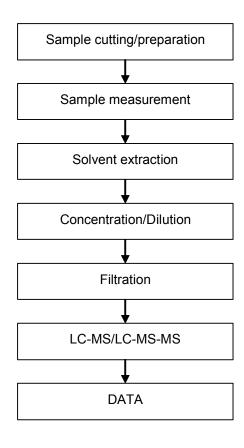
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#### PFASs/ PFOS/PFOA Testing Flow Chart





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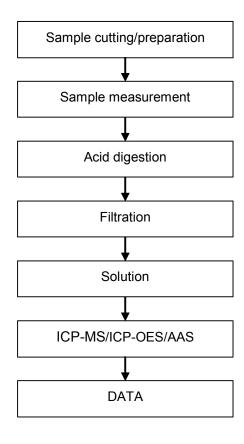
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Date: 28 Jul 2021

#### **Elements Testing Flow Chart**





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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 SN<sub>1</sub> 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/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination

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



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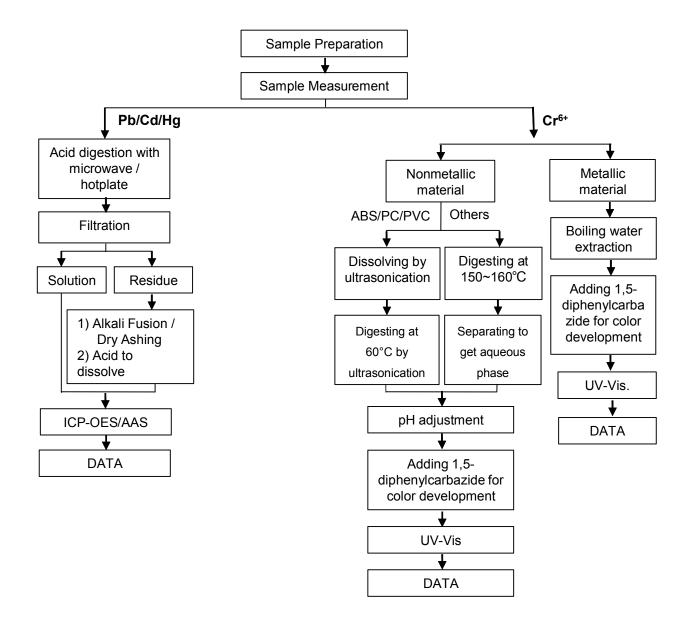
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#### **ATTACHMENTS**

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

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





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

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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 SN<sub>1</sub> 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.

Lead (Pb) 1,000 mg/kg 2 Mercury (Hg) 1,000 mg/kg 2 N	ND 6 ND ND ND
Mercury (Hg) 1,000 mg/kg 2 N	ND ND
	ND ND
Howardont Chromium (Cr)(I)	۱D
Hexavalent Chromium (CrVI) 1,000 mg/kg 8 N	
Sum of PBBs 1,000 mg/kg - N	1D
Monobromobiphenyl - mg/kg 5 N	
Dibromobiphenyl - mg/kg 5 N	۱D
Tribromobiphenyl - mg/kg 5 N	<b>N</b> D
Tetrabromobiphenyl - mg/kg 5 N	۱D
Pentabromobiphenyl - mg/kg 5 N	<b>N</b> D
Hexabromobiphenyl - mg/kg 5 N	<b>N</b> D
Heptabromobiphenyl - mg/kg 5 N	<b>N</b> D
Octabromobiphenyl - mg/kg 5 N	<b>N</b> D
Nonabromobiphenyl - mg/kg 5 N	۱D
Decabromobiphenyl - mg/kg 5 N	<b>N</b> D
Sum of PBDEs 1,000 mg/kg - N	۱D
Monobromodiphenyl ether - mg/kg 5 N	<b>N</b> D
Dibromodiphenyl ether - mg/kg 5 N	<b>N</b> D
Tribromodiphenyl ether - mg/kg 5 N	<b>N</b> D
Tetrabromodiphenyl ether - mg/kg 5 N	<b>N</b> D
Pentabromodiphenyl ether - mg/kg 5 N	۱D



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Test Report	No. CANEC21191742	80	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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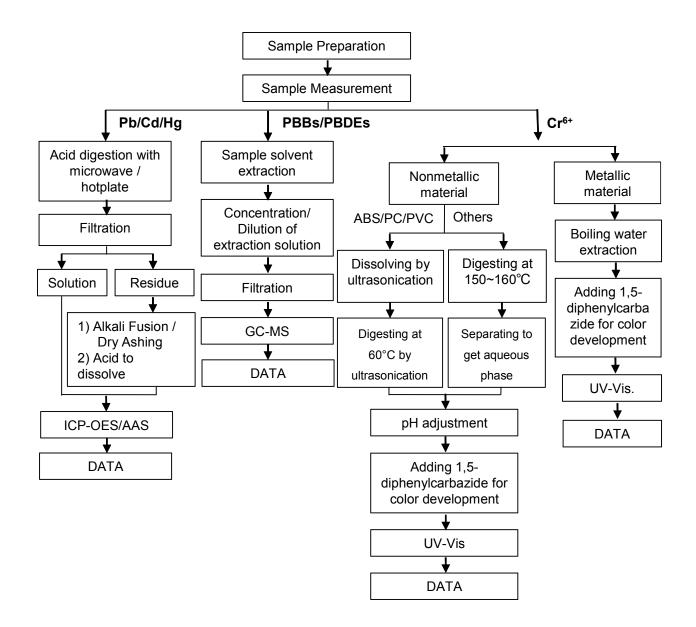
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#### **ATTACHMENTS**

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

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





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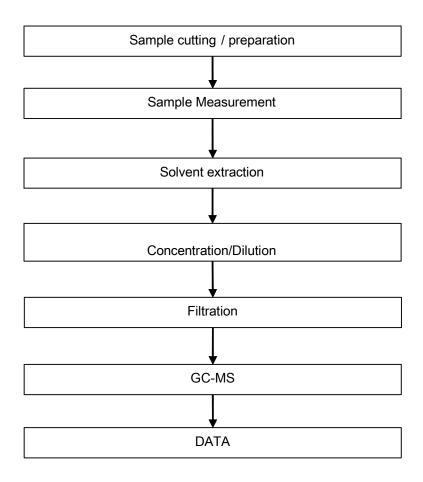
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### **ATTACHMENTS**

# **Phthalates Testing Flow Chart**





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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 SN<sub>1</sub> 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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No. CANEC2117633801		Date: 2	27 Sep 2021	Page 3 of 8
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</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           -         mg/kg         5           -         mg/kg         5           -         mg/kg         5           1000         mg/kg         50           1000         mg/kg         50           1000         mg/kg         50           1000         mg/kg         50	Limit         Unit         MDL         001           -         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>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** Date: 27 Sep 2021 Page 4 of 8 No. CANEC2117633801

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)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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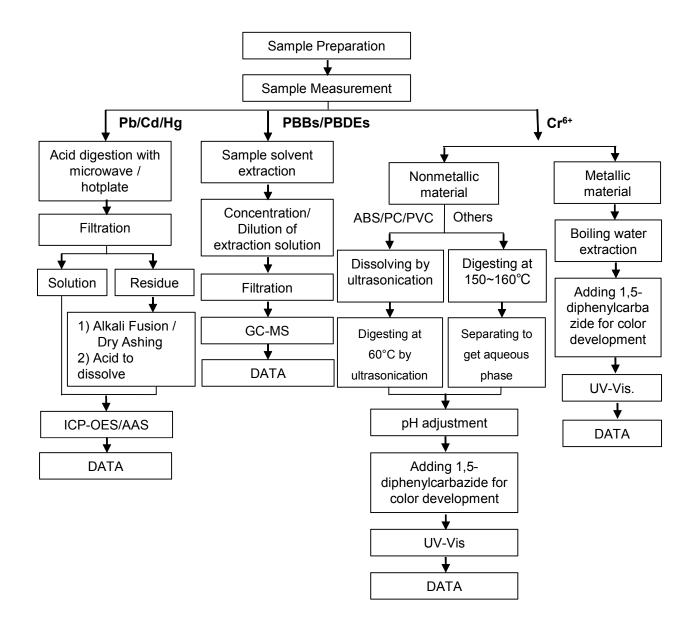
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#### **ATTACHMENTS**

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

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





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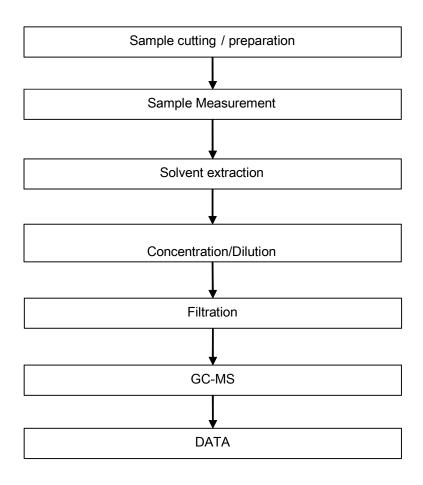


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### **ATTACHMENTS**

# **Phthalates Testing Flow Chart**





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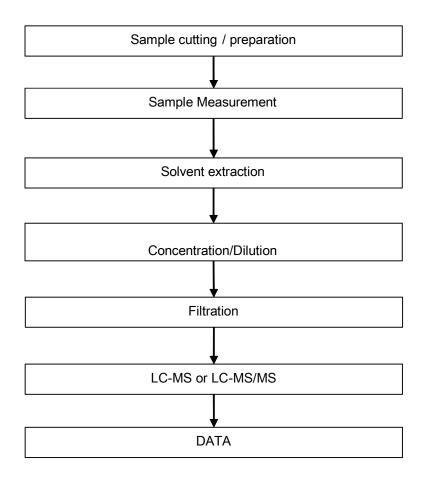
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Date: 27 Sep 2021

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### **ATTACHMENTS**

# 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

> SN<sub>1</sub> 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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No. CANEC2117633803		Date: 2	27 Sep 2021	Page 3 of 8
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
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:

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



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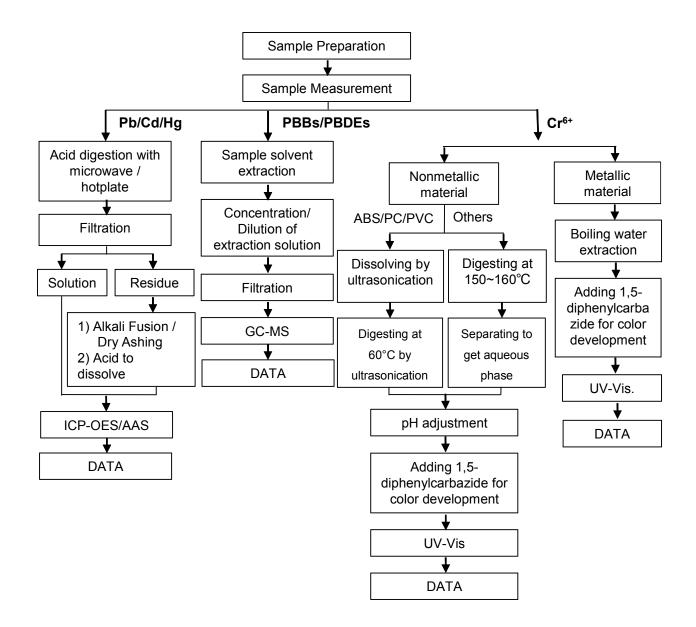
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# Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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





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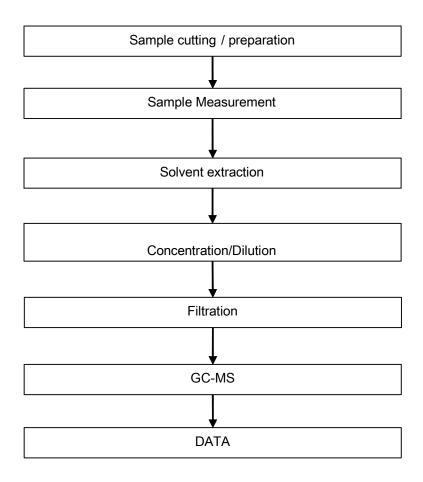


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# **Phthalates Testing Flow Chart**





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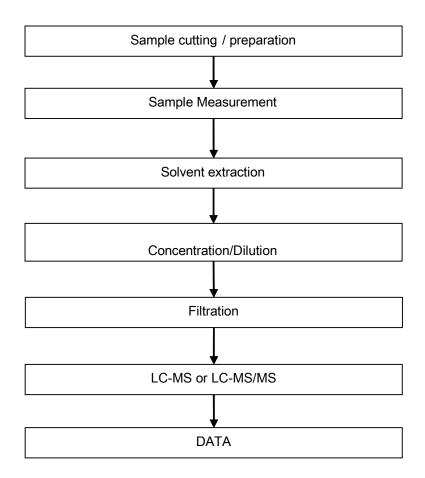
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# PFOA / PFOS Testing Flow Chart





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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

> SN<sub>1</sub> 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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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 Tetrabromodiphenyl ether - mg/kg 5 ND	Pentabromobiphenyl	-	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 Tetrabromodiphenyl ether - mg/kg 5 ND	Hexabromobiphenyl	-	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	Heptabromobiphenyl	-	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	Octabromobiphenyl	-	mg/kg	5	ND
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. CANEC21176338	02	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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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)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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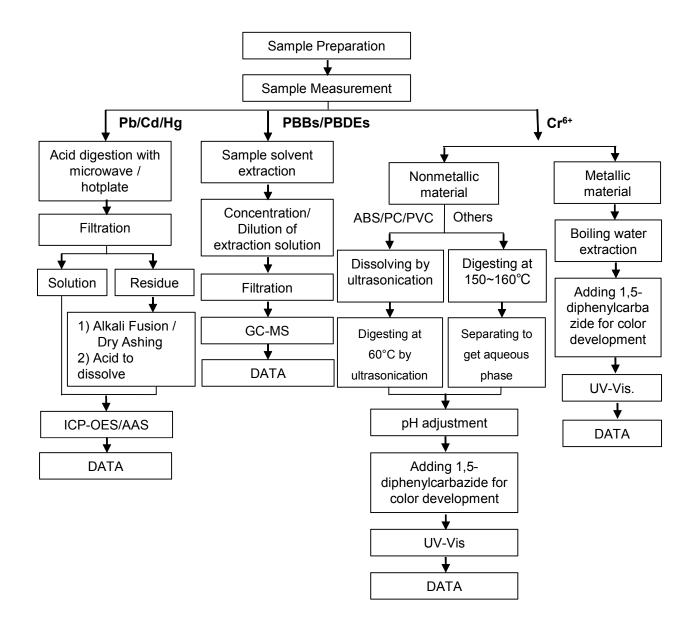
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#### **ATTACHMENTS**

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

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





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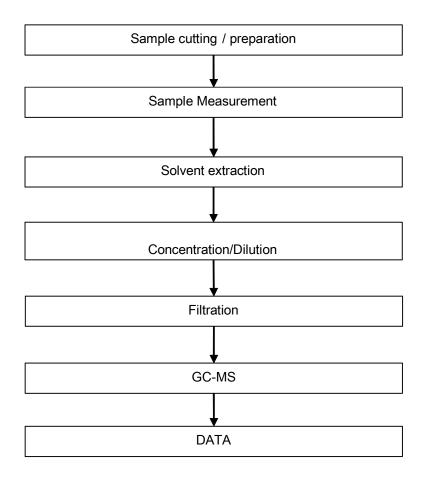
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### **ATTACHMENTS**

# **Phthalates Testing Flow Chart**





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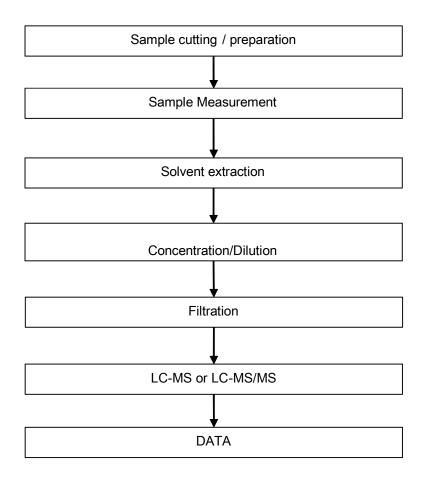
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# PFOA / PFOS Testing Flow Chart





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