

# NED ELECTRONICS LTD.

## FOR APPROVAL

Customer name: \_\_\_\_\_

Customer parts No.: 2.0 PITCH JUMPPER

Designation: \_\_\_\_\_

Model No.: 2.0 PITCH JUMPPER

Q · A DEPT	ENGINEER R&D DEPT	APPD.
Date : 2012-07-30	Date : 2012-07-30	Date : 2012-07-30

**Please confirm our specification.**

**Please confirm and return 1 copy.**

Approved by Customer		
Q · A DEPT	ENGINEER R&D DEPT	ADMIT
Date :	Date :	Date :

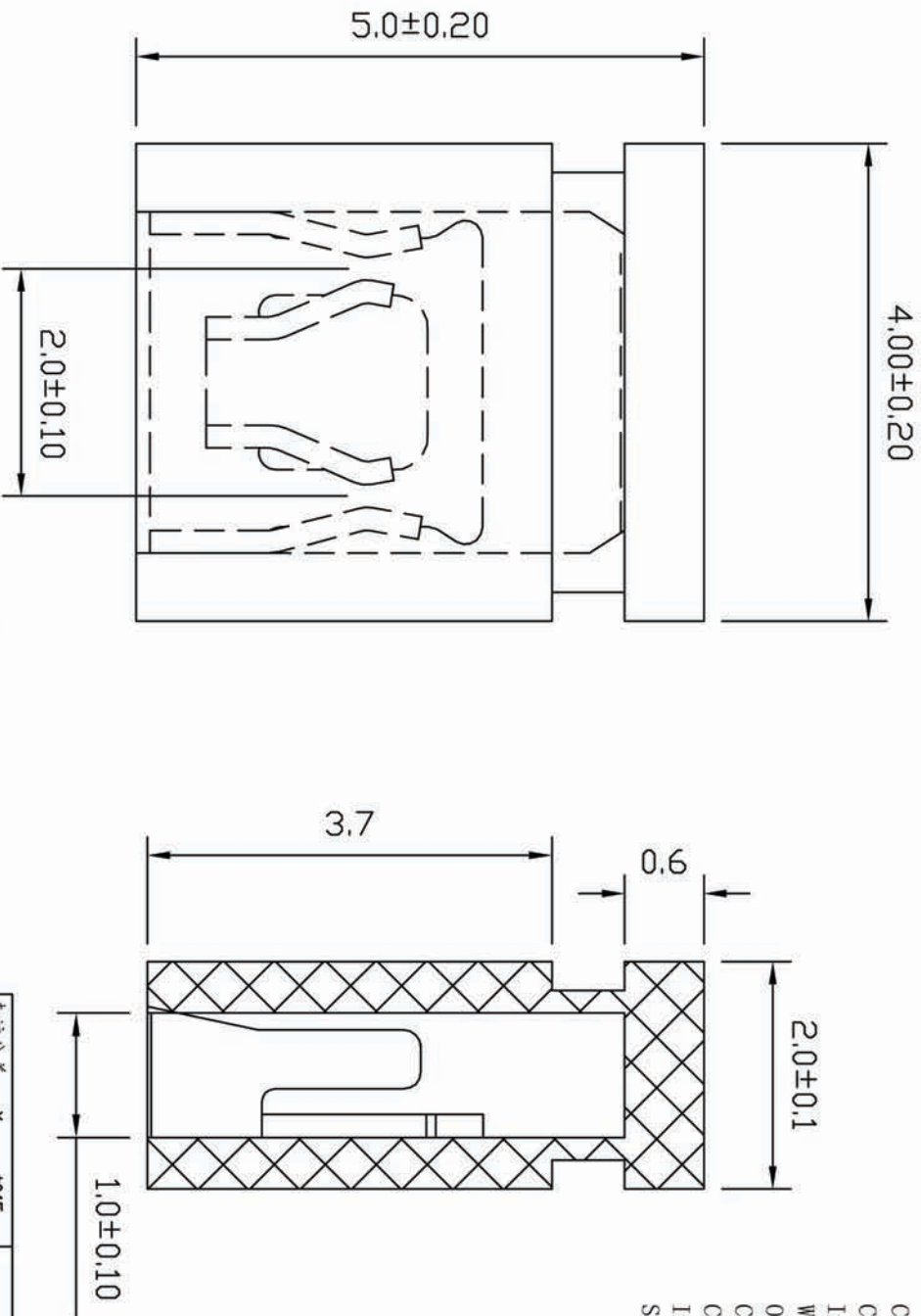
TEL : 86-755-8204-4241 FAX : 86-755-8291-5992

ADD : RM 7201,SHENFANG B/D, HUAQIANG NORTH RD, SHENZHEN,CHNA

版本序号	标记	变更说明	日期	制图	审核
A/0	△	原始版本	2004.10.03		

SPECIFICATIONS

Current Rating : 1.5amps  
Contact Resistance : 20mΩ Max  
Insulation Resistance: 1000MΩ Min  
Withstanding Voltage : AC 500V  
Operating Temperature: -40 ° to +105°  
Contact Material : Brass  
Contact plating : Au or over 50u" Ni  
Insulator Material : Polyester, UL 94V-0  
Standard : P. B. T



闭口

未注公差:		X.XX	±0.15
		X.XX	±0.05
		X.XX	±0.01
		X.XX	±0.002
角度:		X.X°	±0.5°
		X.XX	±0.05°
单位: mm	第三角视图:	设计:	日期: 2004/11
比例: 1:1	绘图: Li Bei lin	审核:	日期: 07.04.26
页次: 01/01	图幅: A4	核准:	日期:
光洁度:	版本: A/0	核准:	日期:
		料号:	3811-1-50-01-C-00-B
		图号:	

NED ELECTRONICS LTD

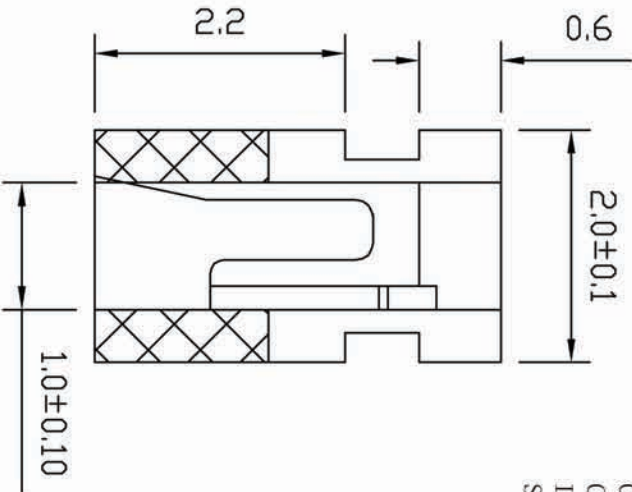
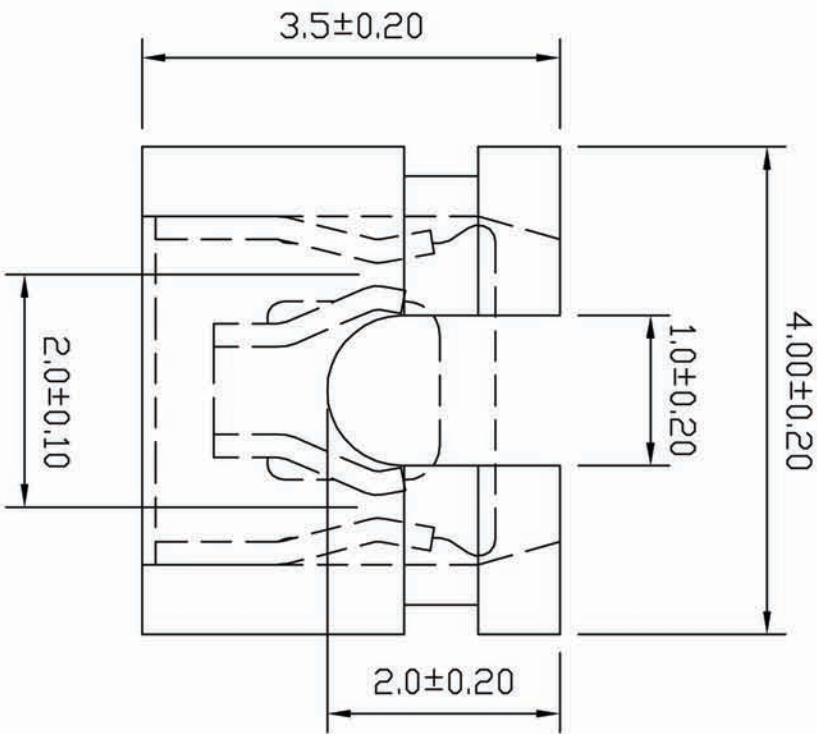
TEL : 0755-8204-4241 FAX : 0755-8291-5992

品名: 2.0MINI JUMPER close

版本序号	标记	变更说明	日期	制图	审核
A/0	△	原始版本	2004.10.03		

SPECIFICATIONS

Current Rating :1.5Amps  
Contact Resistance :20mΩ Max  
Insulation Resistance:1000MΩ Min  
Withstanding Voltage :AC 500V  
Operating Temperature:-40 ° to+105°  
Contact Material :Brass  
Contact plating :Au or over 50u" Ni  
Insulator Material :Polyester, UL 94V-0  
Standard :P. B. T



开口

未注公差:		X.X	±0.15
		X.XX	±0.05
		X.XXX	±0.01
		X.XXX	±0.002
角度:		X.X°	±0.5°
		X.XX	±0.05°
单位: mm	第三角视图:	设计:	日期: 2004/11
比例: 1:1	绘图: Li Bei Lin	审核:	品名: 2.0MINI JUMPER open
页次: 01/01	图幅: A4	日期:	料号: 3811-1-35-01-0-00-B
光洁度:	版本: A/0	核准:	图号:

NED ELECTRONICS LTD  
TEL : 0755-8204-4241 FAX : 0755-8291-5892

大興(香港)公司

# 锦晖电子塑胶有限公司

香港：香港九龙湾荔景山道荔湾花园 272 号 B 座 3 楼 B6 室

**FAX: 00852-27865851**

东莞锦晖：广东省东莞市大岭山镇连平村旧飞鹅大道旁

**FAX: 0769-85629428**

**FAX: 0769-85629428**

[illegible]

# 材质证明

[illegible]

厂商名称: 东莞锦晖电子塑胶有限公司

材质名称: PBT (Poly Butylene Terephthalate) 聚对苯二甲酸丁二醇酯

规格说明: PBT G30V0 黑色

材质说明:

**PBT G30V0 黑色成分含量:** 三菱 5010PBT 树脂 55%, 玻璃纤维 30%, 主阻燃剂 12%,

辅阻燃剂 3%。

PBT G30V0 黑色成品不含以下材质：多氯联苯（PCB）、多氯化萘（PCN）、氯代烷烃（CP）、灭蚊灵（Mirex）有机锡化合物、石棉、偶氮化合物、甲醛、聚氯乙烯以及聚氯乙烯混合物等。

PBT G30V0 黑色经 SGS 检测含有以下物质: 铅 (Lead(Pb)) <1000PPM 镉 (Cadmium(Cd)) <100ppm 汞 (Mercury(Hg)) <1000PPM 六价铬 (Chromium(CrVI)) <1000PPM 十溴联苯 (PBBs) <1000PPM 十溴联苯醚 (PBDEs) <1000ppm 符合欧盟环保要求

制成品检(章): 唐泽鹏

# 佛山市三环铜业有限公司产品品质保证书

本保证书希妥善保管,如对我公司的产品品质有异议,持保证书在一个  
个月内与我公司联系,本公司将竭诚为您服务.

客户名称 科 特 ※

结算单号 QBB-518 ※

发货日期 2011-4-17※

产品批号 A001 ※

产品名称 黄铜带 ※

产品牌号 h65 ※

产品规格 0.4\*15.5

产品状态 Y ※

产品数量 25件 ※

产品重量 1058.58 ※

质保部长 李娜 ※

检验员: 邓招秀 ※

执行标准: GB/T2059-2000

化学成分(%):

铜Cu	65.09	锌Zn	余量	铁Fe	0.003
锡Sn		磷P	/	铅Pb	0.003
铋Sb	/	硅Si	/	铋Bi	/
镍Ni	/	锰Mn	/	铝Al	/
银Ag	—/—	砷As	/	杂项总合	〈0.02

物理性能

抗拉强度N/mm2	639.1	延伸率%	/
杯突值	/	维氏硬度HV	182

表面质量与公差(mm):

厚度公差: ±0.005 宽度公差: 表面质量: 合格 OK

填表员: 麦建群 填表日期: 2011-4-17



## Test Report

No.: GZ1110135783/CHEM

Date: NOV 01, 2011

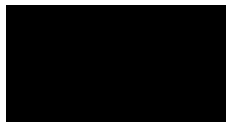
Page 1 of 5

DONG GUAN JIN HUI ELECTRONICS PLASTICS CO., LTD  
NO.3, DISTRICT YANGWU DALINGSHAN DONGGUAN GUANGDONG

The following sample(s) was/were submitted and identified on behalf of the applicant as PBT plastic particles

SGS Job No. : SZ13427885  
SGS Internal Reference No. : 4.1  
Date of Sample Received : OCT 26, 2011  
Testing Period : OCT 26, 2011 TO NOV 01, 2011  
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).

Signed for and on behalf of  
SGS-CSTC Ltd.



Alison Zhang  
Approved Signatory

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198 Kezhu Road, Sciencetech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.cn.sgs.com  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

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## Test Report

No.: GZ1110135783/CHEM

Date: NOV 01, 2011

Page 2 of 5

Test Results:

### Test Part Description:

Specimen No.	SGS Sample ID	Description
1	GZ1110135783.001	Black plastic grains

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)
- (4) "-" = Not Regulated

### Elementary Analysis & Flame Retardants

Test Method: With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs and PBDEs by GC-MS.

Test Item(s):	Unit	MDL	001
Cadmium(Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	2	ND
Sum of PBBs	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	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND
Dibromodiphenyl ether	mg/kg	5	ND
Tribromodiphenyl ether	mg/kg	5	ND

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Guangzhou Branch Testing Center Chemical Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

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## Test Report

No.: GZ1110135783/CHEM

Date: NOV 01, 2011

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Tetrabromodiphenyl ether	mg/kg	5	ND
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

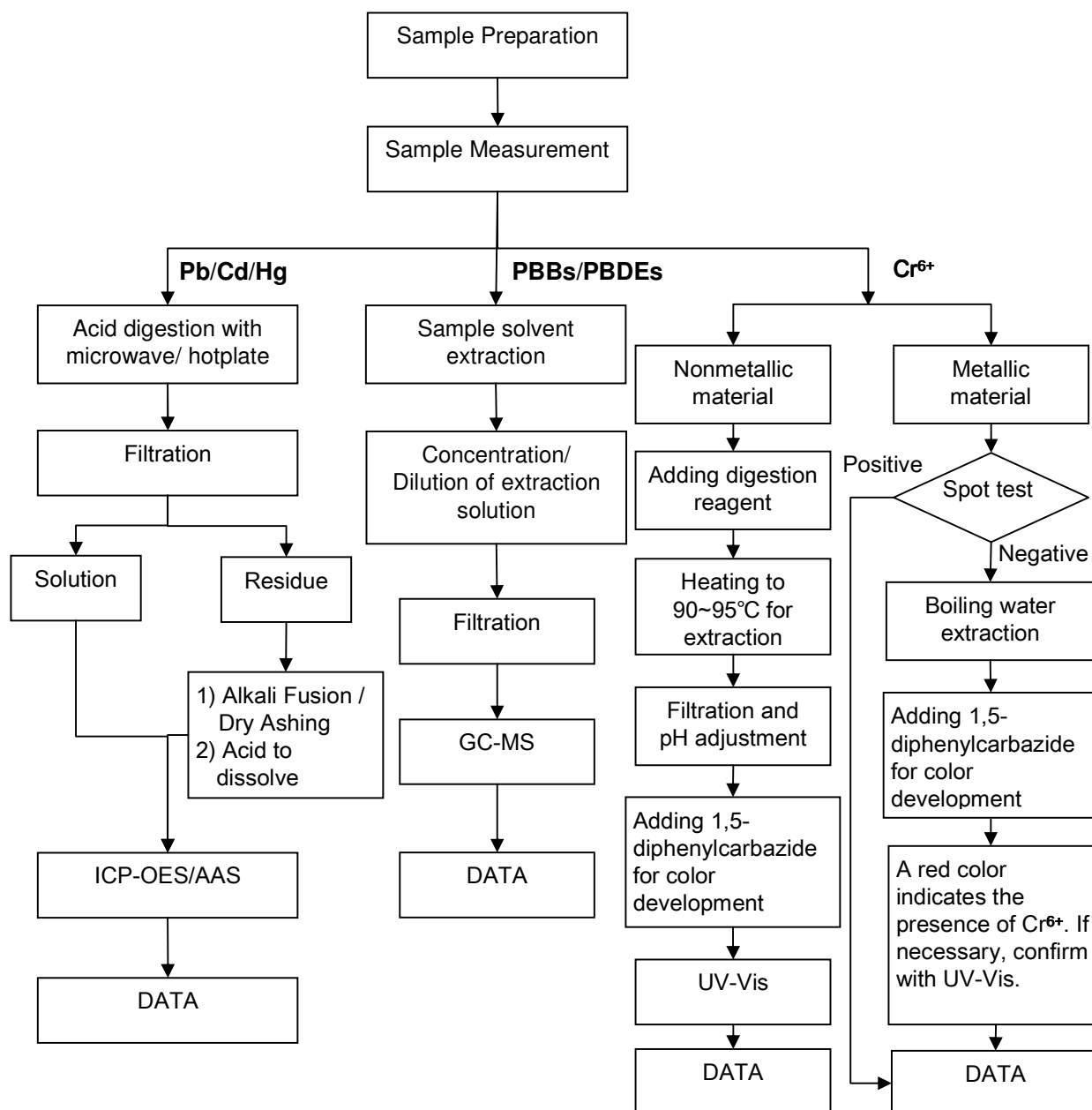
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### ATTACHMENTS

#### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Cutey Yu / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) 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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Sample photo :



SGS authenticate the photo on original report only

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

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## 测试报告

No. CANEC1200140104

日期: 2012年01月12日 第1页,共6页

佛山市德祥源金属材料有限公司

佛山市禅城区城北原大桥收费站东侧20号一、二楼

以下测试之样品是由申请者所提供及确认: C2680

SGS工作编号: CP12-000033 - GZ

样品接收日期: 2012年01月06日

测试周期: 2012年01月06日 - 2012年01月12日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: A: 基于所送样品进行的测试, 铅、镉、汞、六价铬、多溴联苯、多溴二苯醚的测试结果符合欧盟RoHS指令2002/95/EC的重订指令2011/65/EU附录II的限值要求。

通标标准技术服务有限公司

授权签名



Almay Gao高志梅

批准签署人

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## 测试报告

No. CANEC1200140104

日期: 2012年01月12日

第2页,共6页

测试结果:

样品部件外观描述:

样品编号	SGS样品ID	描述
1	CAN12-001401.002	黄铜色金属片

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 ( < MDL )
- (4) "-" = 未规定

### A: RoHS 指令 2011/65/EU

测试方法: 参考IEC 62321:2008:

- (1) 用ICP-OES测定镉的含量.
- (2) 用ICP-OES测定铅的含量.
- (3) 用ICP-OES测定汞的含量.
- (4) 用点测试法/紫外-可见分光光度计比色法测定六价铬的含量
- (5) 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量

测试项目	限值	单位	MDL	002
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1,000	mg/kg	2	12
汞(Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	◇	Negative
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND

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## 测试报告

No. CANEC1200140104

日期: 2012年01月12日

第3页,共6页

测试项目	限值	单位	MDL	002
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注:

(1) 最大允许极限值引用自指令2011/65/EU 附录II

(2) ◇ =a. Negative为未检测到六价铬;  
b. Positive 为检测到六价铬.

针对金属表面的防腐涂层: 由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅代表测试时样品的状态.

### B: 全氟辛烷磺酰基化合物(PFOS)和全氟辛酸(PFOA)

测试方法: 参照US EPA 3550C: 2007方法测定, 采用HPLC-MS进行分析.

测试项目	单位	MDL	002
全氟辛烷磺酰基化合物 (PFOS)- 酸,金属盐和酰胺	mg/kg	10	ND
全氟辛酸 (PFOA)	mg/kg	10	ND

备注:

(1) PFOS 参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第53条 (前身为2006/122/EC)

(i) PFOS作为纯物质或者制备原料时,若浓度大于等于0.005%(重量)则不可以投放市场.

(ii) PFOS用于半成品、成品或零部件时,若浓度大于等于0.1%(参照明确含有PFOS结构或者微结构部分重量计算)则不可以投放市场; 对于纺织品或其它涂层材料, 若PFOS的含量大于或等于1µg /m<sup>2</sup>(相对于涂层部分)则不可以投放市场.

详细信息请参见Regulation (EC) No 552/2009

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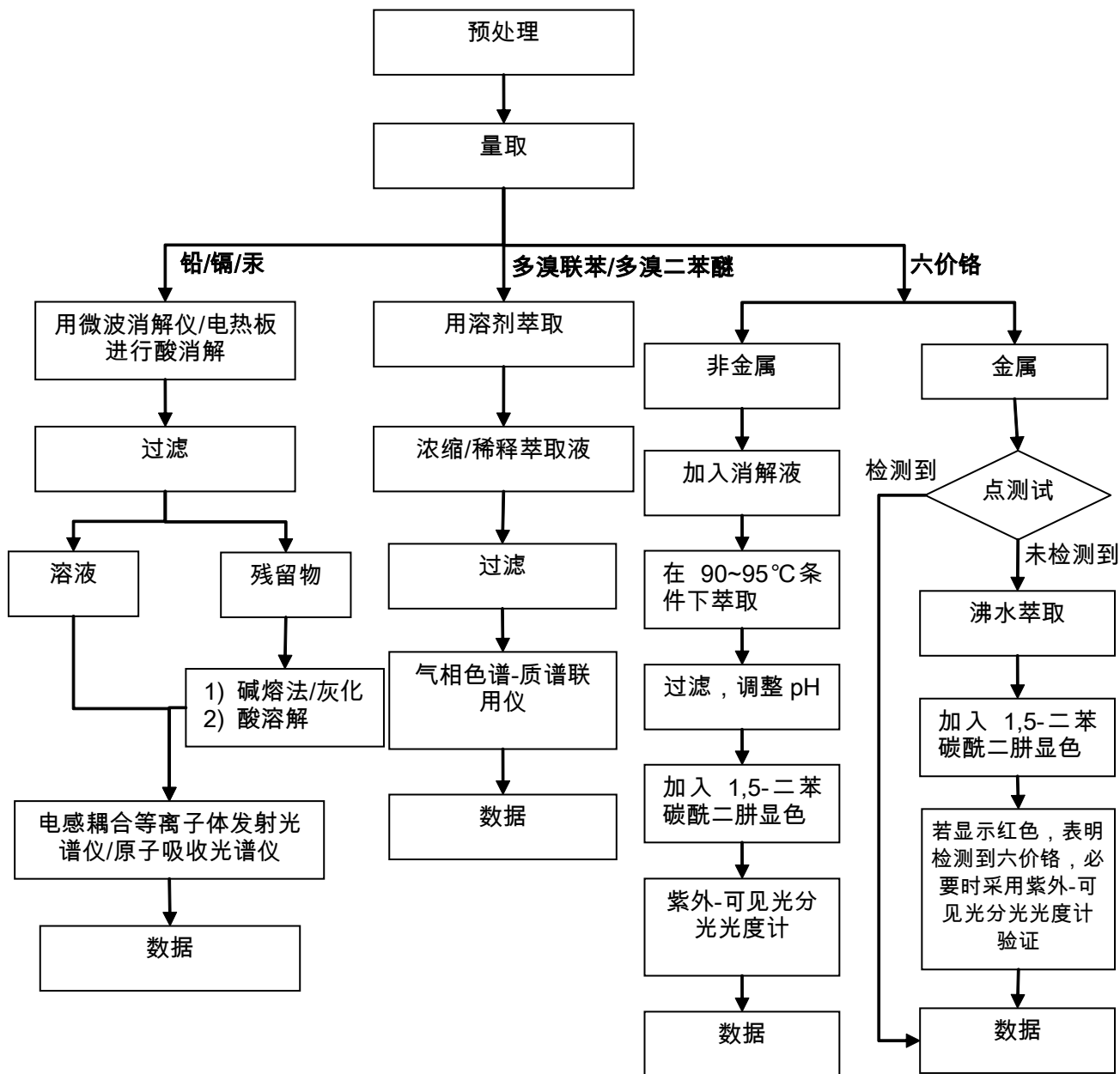
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## 附件

### RoHS 测试流程图

- 1) 分析人员: 汪丹 / 余晓璐 / 詹达琦
- 2) 项目负责人: 余奕东 / 杨伟兴
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。

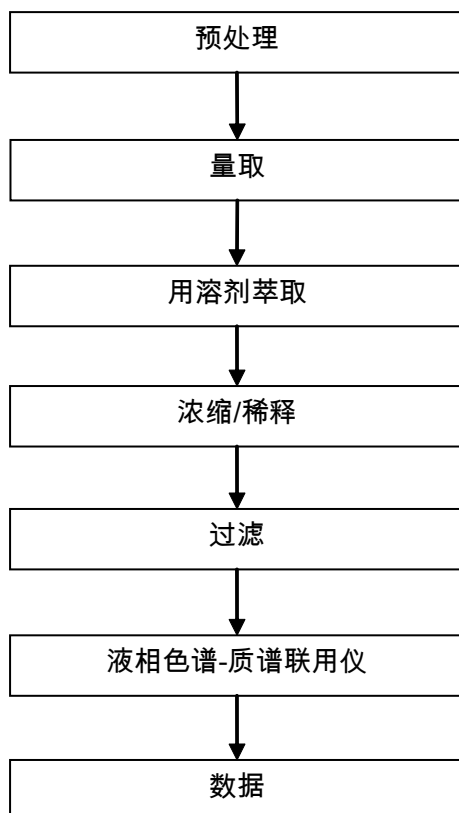


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## 附件

### PFOA / PFOS 测试流程图

- 1) 分析人员：黄少婵
- 2) 项目负责人：杨伟兴



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## 测试报告

No. CANEC1200140104

日期: 2012年01月12日

第6页,共6页

样品照片:



此照片仅限于随SGS正本报告使用

\*\*\* 报告完 \*\*\*

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HONG LI PLATING PRODUCT CO. LTD.(XIN HUA PLATING BUSINESS DIVISION)

C BUILDING., HONG LI FACTORY, NO.2 BI TOU INDUSTRIAL PARK, SONG GANG TOWN, BAO'AN SHEN ZHEN

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

SGS Job No. : SZML120200678 - SZ

Internal Reference No. : 2.2

Date of Sample Received : 21 Feb 2012

Testing Period : 21 Feb 2012 - 22 Feb 2012

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 selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits in RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of  
SGS-CSTC Ltd.



Trophy Zhang  
Approved Signatory

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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN12-014333.002	Silvery,silver-grey & golded 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 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	14
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) ◇ = a. Negative means the absence of CrVI on the tested areas;  
b. Positive means the presence of CrVI on the tested areas.

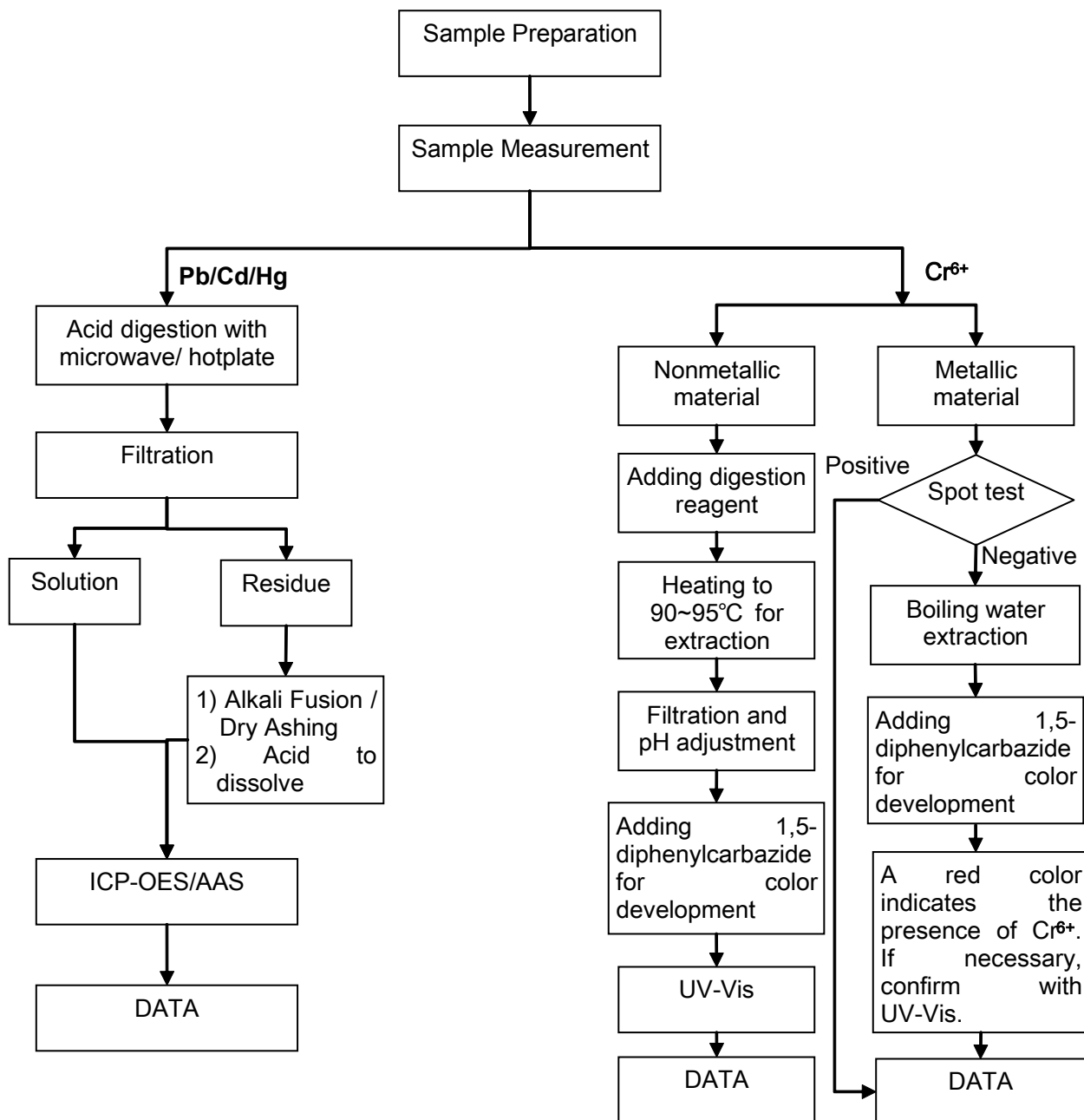
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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### ATTACHMENTS

#### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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Sample photo:



SGS authenticate the photo on original report only

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

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