




ICP Test Report Certification Packet

Company name: Littelfuse, Inc.
Product Series: LFCC-CD - LFCC/CD Series –
Class CC/CD Indicating Fuse Block
Product #: LFC60060xxxxxxxx
Issue Date: December 17, 2013

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC, 2011/65/EU)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by: 
JENNY DINGLASAN

<Global EHS Specialist >

(1) Parts, sub-materials and unit parts

This document covers the L60060 Fuse Block Series RoHS-Compliant series products manufactured by Littelfuse, Inc.

< Raw Materials Used
Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identified in Table 1

Remarks :



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	N/A	Fuse Block (PBT Valox)	3-12
2	N/A	Indicator (PC 2407)	13-18
3	N/A	Stop (POM DELRIN 500P)	19-28
4	N/A	Clip – T3 Copper Alloy	29-32
5	N/A	Spring – 65 Mn	33-36
6	N/A	Terminal Block – Aluminum Material	37-39
7	N/A	Slotted Screw – Aluminum Material	37-39
8	N/A	Tapping Screw - Steel	40-43
9	N/A	Neon Components - Lamp	44-48
10	N/A	Neon Components - Resistor	49-53
11	N/A	Neon Components – Coated Wire	54-67
12	N/A	Tin Plating	68-71
13	N/A	Zinc Plating	72-75



Test Report

Number: 131200757SHA-001

Applicant: LITTELFUSE, INC.
800 E. NORTHWEST HWY
DES PLAINES, IL 60016
ATTN: J. CABILAN / A. CESISTA JR

Date: Dec. 17, 2013

Sample Description:
One (1) submitted sample said to be: **Black plastic**
Part Description : Fuse Block (PBT Valox)
Part Number : NA

Tests conducted:
As requested by the applicant, for details refer to attached page(s).

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	With reference to test method of IEC 62321 Edition 1.0: 2008 and maximum concentration limits quoted from RoHS Directive 2011/65/EU	Pass

To be continued

Prepared and check by:
For Intertek Testing Services Ltd., Shanghai

Joy Zhou

Authorized by:
For Intertek testing services Ltd., Shanghai

Jonny Jing
Manager





Test Report

Number: 131200757SHA-001

Tests Conducted

1. RoHS testing and Halogen content

(I) Test Result Summary:

Testing Item	Result (ppm)
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	ND
Mercury (Hg) content	ND
Chromium VI (Cr ⁶⁺) content	ND
Polybrominated Biphenyls (PBBs)	
Monobrominated Biphenyls (MonoBB)	ND
Dibrominated Biphenyls (DiBB)	ND
Tribrominated Biphenyls (TriBB)	ND
Tetrabrominated Biphenyls (TetraBB)	ND
Pentabrominated Biphenyls (PentaBB)	ND
Hexabrominated Biphenyls (HexaBB)	ND
Heptabrominated Biphenyls (HeptaBB)	ND
Octabrominated Biphenyls (OctaBB)	ND
Nonabrominated Biphenyls (NonaBB)	ND
Decabrominated Biphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)	
Monobrominated Diphenyl Ethers (MonoBDE)	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND
Hexabrominated Diphenyl Ethers (HexaBDE)	ND
Heptabrominated Diphenyl Ethers (HeptaBDE)	ND
Octabrominated Diphenyl Ethers (OctaBDE)	ND
Nonabrominated Diphenyl Ethers (NonaBDE)	ND
Decabrominated Diphenyl Ether (DecaBDE)	ND
Halogen Content	
Fluorine (F)	750
Chlorine (Cl)	100
Bromine (Br)	43750
Iodine (I)	ND

Remarks: ppm = parts per million = mg/kg
ND = not detected

Responsibility of Chemist: Dent Fang / Leaf Liu

To be continued

Tests Conducted

(II) RoHS Requirement:

<u>Restricted Substances</u>	<u>Limits</u>
Cadmium (Cd) Content	0.01% (100ppm)
Lead (Pb) Content	0.1% (1000ppm)
Mercury (Hg) Content	0.1% (1000ppm)
Chromium VI (Cr ⁶⁺) Content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000ppm)

The above limits were quoted from RoHS Directive 2011/65/EU for homogeneous material.

(III) Test Method:

<u>Testing Item</u>	<u>Testing Method</u>	<u>Reporting Limit</u>
Cadmium (Cd) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Lead (Pb) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Mercury (Hg) content	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Chromium VI (Cr ⁶⁺) content	With reference to IEC 62321 edition 1.0:2008 in annex C, by alkaline digestion and determined by UV-VIS Spectrophotometer.	1 ppm
Polybrominated Biphenyls (PBBs)	With reference to IEC 62321 edition 1.0:2008 in Annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 edition 1.0:2008 in Annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Halogen Content	With reference to EN 14582:2007 by combustion flask with oxygen and determined by Ion Chromatography	50 ppm

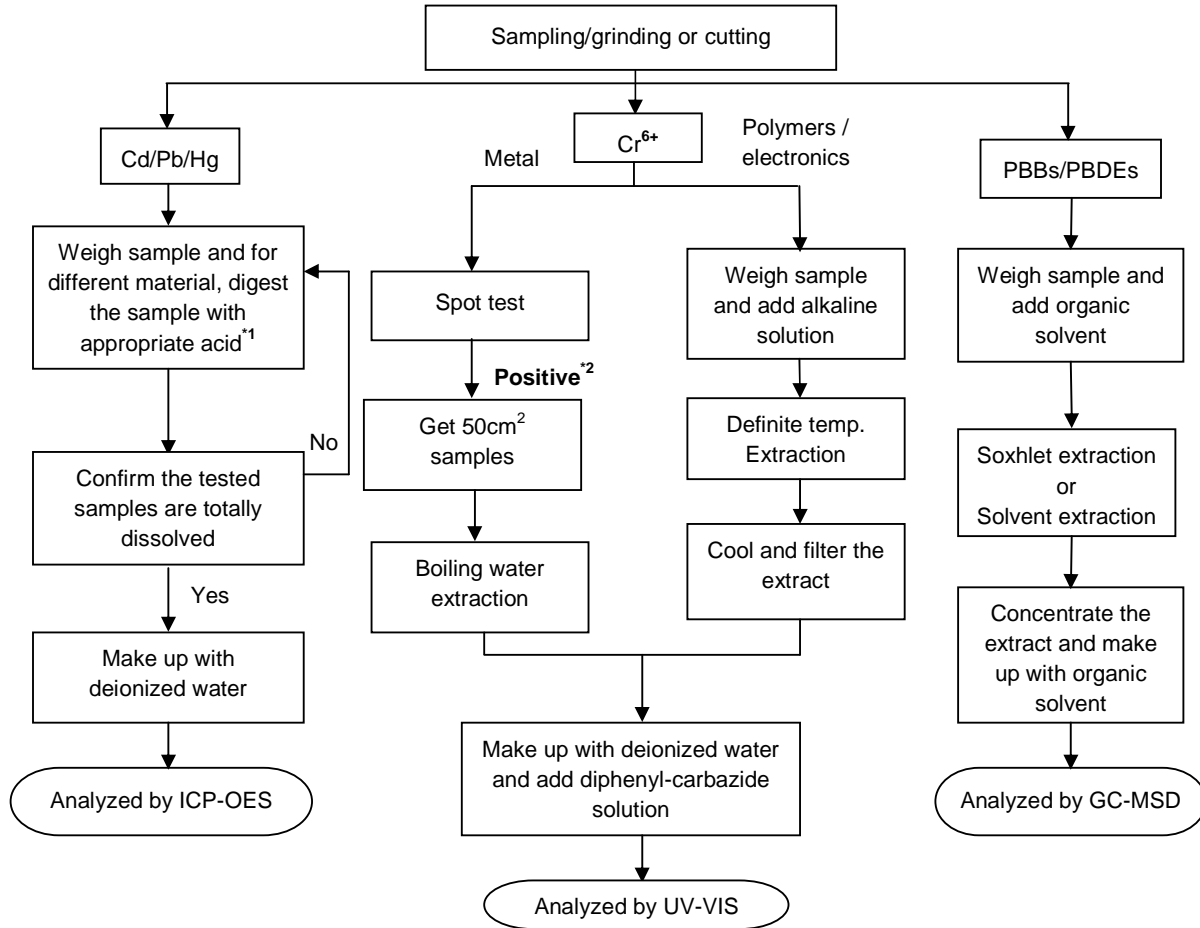
Remark: Reporting limit = Quantitation Limit of Analyze in Sample

To be continued

Tests Conducted

(IV) Measurement Flowchart:

Test for Cd/ Pb/ Hg/Cr (VI)/ PBBs/PBDEs Contents
Reference Standard: IEC 62321 Edition 1.0: 2008



Remarks:

*1: List of appropriate acid:

MATERIAL	ACID ADDED FOR DIGESTION
Polymers	HNO ₃ ,HCl, HF, H ₂ O ₂ ,H ₃ BO ₃
Metals	HNO ₃ ,HCL, HF
Electronics	HNO ₃ ,HCL, H ₂ O ₂ , HBF ₄

*2: If the result of spot test is positive, Chromium (VI) would be determined as detected.

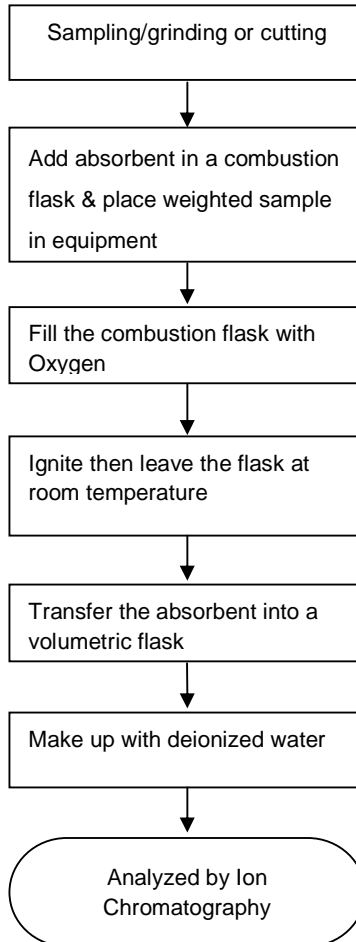
To be continued

Tests Conducted

(V) Measurement flowchart:

Test or Halogen content

Reference standard: EN 14582



To be continued



Test Report

Number: 131200757SHA-001

Tests Conducted

2. Phthalate content test

With reference to EN 14372 by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

<u>Tested Compound</u>	<u>Result (% w/w)</u>	<u>Client' requirement (% w/w)</u>
Di-butyl phthalate (DBP)	ND	-
Di(2-ethyl hexyl) phthalate(DEHP)	ND	-
Benzyl butyl phthalate (BBP)	ND	-
Sum of three phthalates	ND	0.1
Di-iso-butyl phthalate (DIBP)	ND	0.1

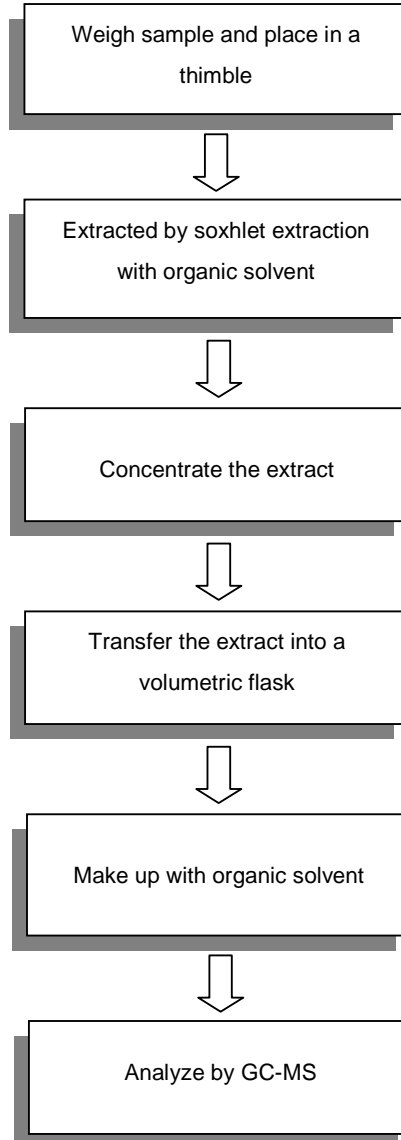
Remark : Detection Limit = 0.01%(w/w)
ND = Not Detected

To be continued

Tests Conducted

Measurement flowchart:

Test for **phthalate** content



To be continued



Test Report

Number: 131200757SHA-001

Tests Conducted

3. HBCDD content

(I)Test result summary:

<u>Testing item</u>	<u>Result (ppm)</u>
HBCDD (hexabromocyclododecane)	ND

Remarks: ppm = parts per million = mg/kg
ND = Not detected

(II) Test method:

<u>Testing item</u>	<u>Testing method</u>	<u>Reporting limit</u>
HBCDD (hexabromocyclododecane)	With reference to US EPA 3540C, by solvent extraction and determined by GC-MS	10 ppm

Date sample received: Dec. 13, 2013

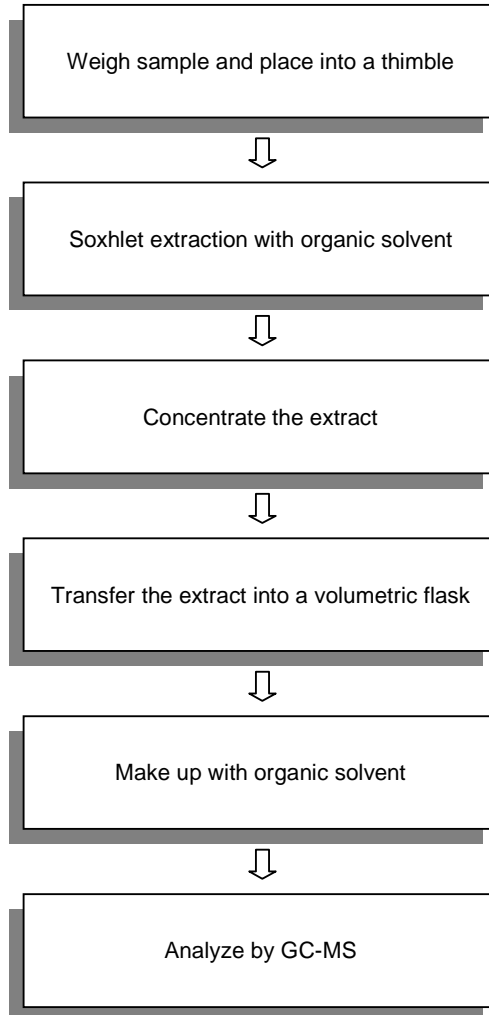
Testing period: Dec. 13, 2013 To Dec. 17, 2013

To be continued

Tests Conducted

Measurement flowchart:

Test for HBCDD (hexabromocyclododecane) content



To be continued

Tests Conducted



131200757SHA-001

Date: December 13, 2013

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

测试报告

No. SHAEC1302100308

日期: 2013年02月06日 第1页,共6页

上海锦磁贸易有限公司

上海市宝山城市工业园区园光路228号

以下测试之样品是由申请者所提供及确认: MAKROLON 2407

SGS工作编号: SP13-002730 - SH

成分: 聚碳酸酯

型号: 550115

供应商: 拜耳

样品接收日期: 2013年02月04日

测试周期: 2013年02月04日 - 2013年02月06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: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBB)、多溴二苯醚(PBDE)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



Helen Liu 刘海鹏

批准签署人

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测试报告

No. SHAEC1302100308

日期: 2013年02月06日

第2页,共6页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	SHA13-021003.004	透明颗粒

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

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	004
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	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)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND

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测试报告

No. SHAEC1302100308

日期: 2013年02月06日

第3页,共6页

测试项目	限值	单位	MDL	004
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.

卤素

测试方法: 参照EN 14582:2007方法测定,采用IC进行分析.

测试项目	单位	MDL	004
氟(F)	mg/kg	50	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

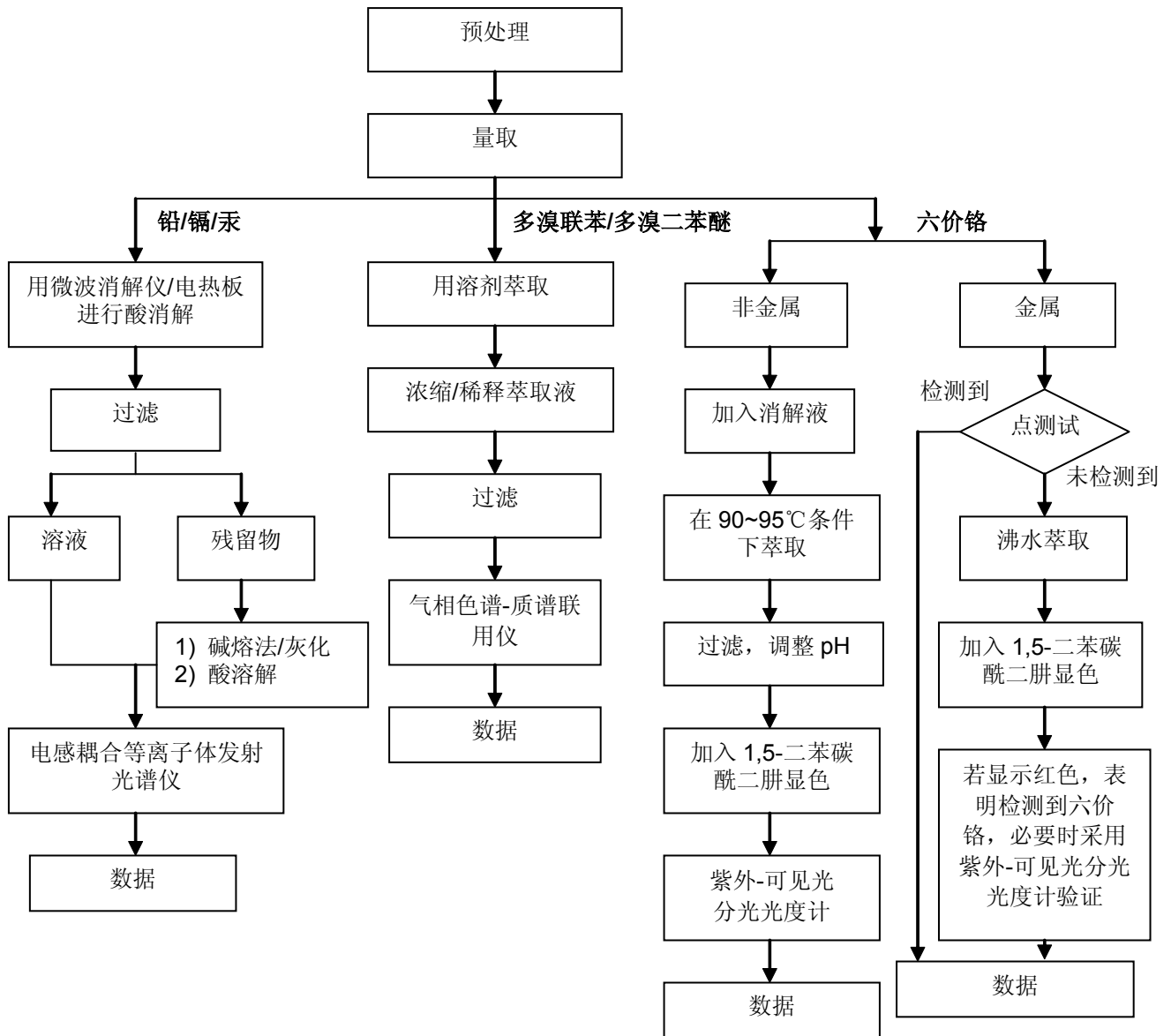


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附件

RoHS 测试流程图

- 1) 分析人员: 施青/王彦青/肖飞/徐刚
- 2) 项目负责人: 张春华/徐亮/李丹
- 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)。

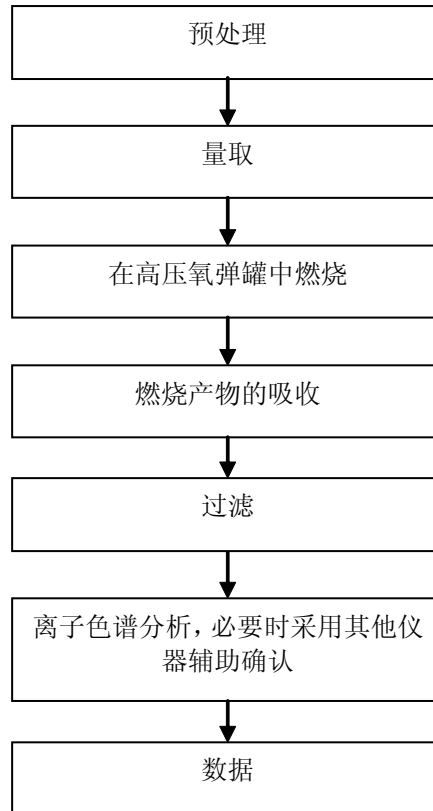


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Halogen 测试流程图

- 1) 分析人员: 印宇
- 2) 项目负责人: 李丹



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此照片仅限于随SGS正本报告使用

*** 报告完 ***

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Test Report

Number: 131200757SHA-002

Applicant: LITTELFUSE, INC.
800 E. NORTHWEST HWY
DES PLAINES, IL 60016
ATTN: J. CABILAN / A. CESISTA JR

Date: Dec. 17, 2013

Sample Description:
One (1) submitted sample said to be: **Red plastic**
Part Description : Stop (POM DELRIN 500P)
Part Number : NA

Tests conducted:
As requested by the applicant, for details refer to attached page(s).

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	With reference to test method of IEC 62321 Edition 1.0: 2008 and maximum concentration limits quoted from RoHS Directive 2011/65/EU	Pass

To be continued

Prepared and check by:
For Intertek Testing Services Ltd., Shanghai

Joy Zhou

Authorized by:
For Intertek testing services Ltd., Shanghai

Jonny Jing
Manager





Test Report

Number: 131200757SHA-002

Tests Conducted

1. RoHS testing and Halogen content

(I) Test Result Summary:

Testing Item	Result (ppm)
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	ND
Mercury (Hg) content	ND
Chromium VI (Cr ⁶⁺) content	ND
Polybrominated Biphenyls (PBBs)	
Monobrominated Biphenyls (MonoBB)	ND
Dibrominated Biphenyls (DiBB)	ND
Tribrominated Biphenyls (TriBB)	ND
Tetrabrominated Biphenyls (TetraBB)	ND
Pentabrominated Biphenyls (PentaBB)	ND
Hexabrominated Biphenyls (HexaBB)	ND
Heptabrominated Biphenyls (HeptaBB)	ND
Octabrominated Biphenyls (OctaBB)	ND
Nonabrominated Biphenyls (NonaBB)	ND
Decabrominated Biphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)	
Monobrominated Diphenyl Ethers (MonoBDE)	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND
Hexabrominated Diphenyl Ethers (HexaBDE)	ND
Heptabrominated Diphenyl Ethers (HeptaBDE)	ND
Octabrominated Diphenyl Ethers (OctaBDE)	ND
Nonabrominated Diphenyl Ethers (NonaBDE)	ND
Decabrominated Diphenyl Ether (DecaBDE)	ND
Halogen Content	
Fluorine (F)	ND
Chlorine (Cl)	200
Bromine (Br)	ND
Iodine (I)	ND

Remarks: ppm = parts per million = mg/kg
ND = not detected

Responsibility of Chemist: Dent Fang / Leaf Liu

To be continued

Tests Conducted

(II) RoHS Requirement:

<u>Restricted Substances</u>	<u>Limits</u>
Cadmium (Cd) Content	0.01% (100ppm)
Lead (Pb) Content	0.1% (1000ppm)
Mercury (Hg) Content	0.1% (1000ppm)
Chromium VI (Cr ⁶⁺) Content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000ppm)

The above limits were quoted from RoHS Directive 2011/65/EU for homogeneous material.

(III) Test Method:

<u>Testing Item</u>	<u>Testing Method</u>	<u>Reporting Limit</u>
Cadmium (Cd) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Lead (Pb) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Mercury (Hg) content	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Chromium VI (Cr ⁶⁺) content	With reference to IEC 62321 edition 1.0:2008 in annex C, by alkaline digestion and determined by UV-VIS Spectrophotometer.	1 ppm
Polybrominated Biphenyls (PBBs)	With reference to IEC 62321 edition 1.0:2008 in Annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 edition 1.0:2008 in Annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Halogen Content	With reference to EN 14582:2007 by combustion flask with oxygen and determined by Ion Chromatography	50 ppm

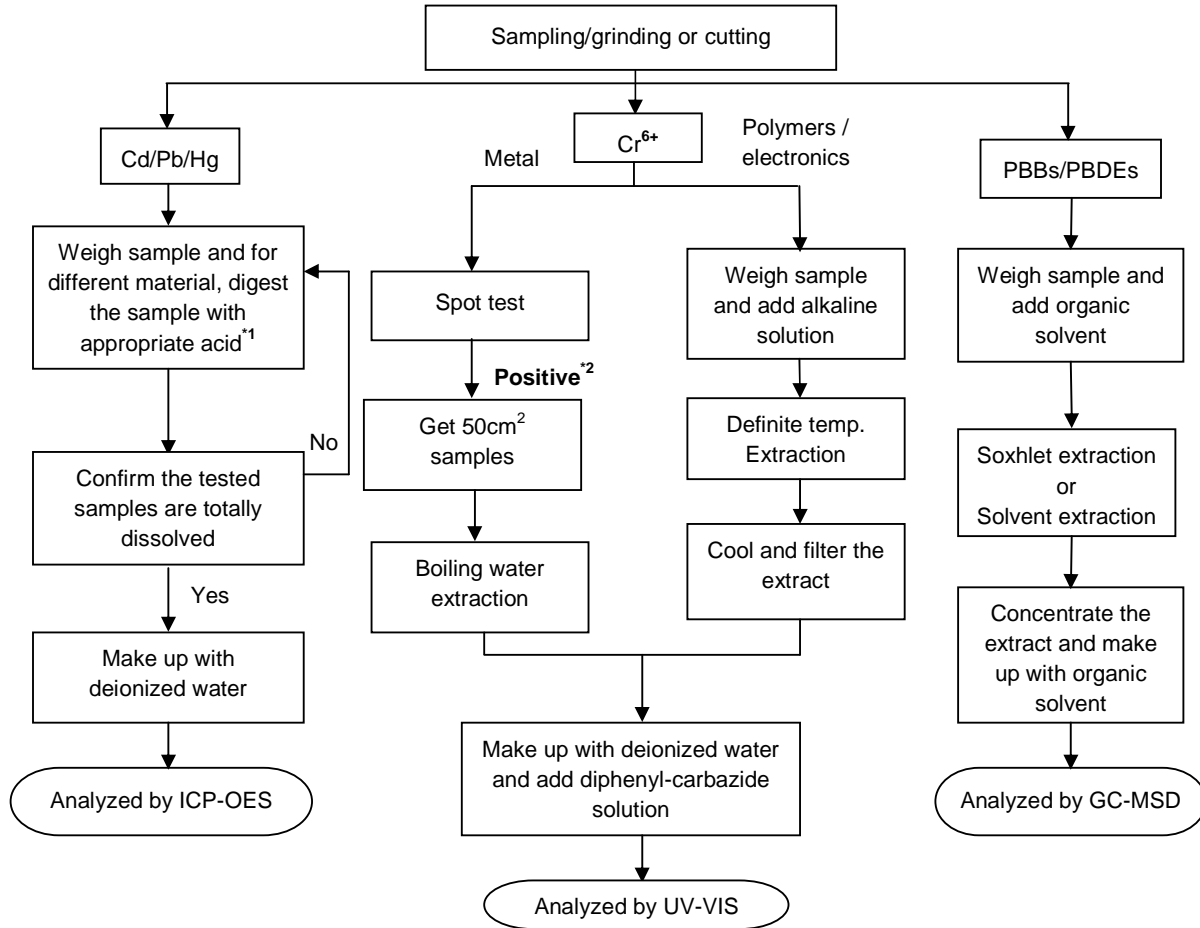
Remark: Reporting limit = Quantitation Limit of Analyze in Sample

To be continued

Tests Conducted

(IV) Measurement Flowchart:

Test for Cd/ Pb/ Hg/Cr (VI)/ PBBs/PBDEs Contents
Reference Standard: IEC 62321 Edition 1.0: 2008



Remarks:

*1: List of appropriate acid:

MATERIAL	ACID ADDED FOR DIGESTION
Polymers	HNO ₃ ,HCl, HF, H ₂ O ₂ ,H ₃ BO ₃
Metals	HNO ₃ ,HCL, HF
Electronics	HNO ₃ ,HCL, H ₂ O ₂ , HBF ₄

*2: If the result of spot test is positive, Chromium (VI) would be determined as detected.

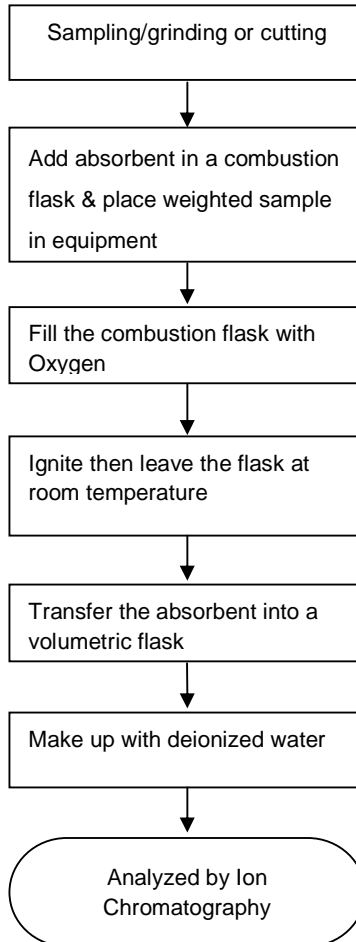
To be continued

Tests Conducted

(V) Measurement flowchart:

Test or Halogen content

Reference standard: EN 14582



To be continued



Test Report

Number: 131200757SHA-002

Tests Conducted

2. Phthalate content test

With reference to EN 14372 by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

<u>Tested Compound</u>	<u>Result (% w/w)</u>	<u>Client' requirement (% w/w)</u>
Di-butyl phthalate (DBP)	ND	-
Di(2-ethyl hexyl) phthalate(DEHP)	ND	-
Benzyl butyl phthalate (BBP)	ND	-
Sum of three phthalates	ND	0.1
Di-iso-butyl phthalate (DIBP)	ND	0.1

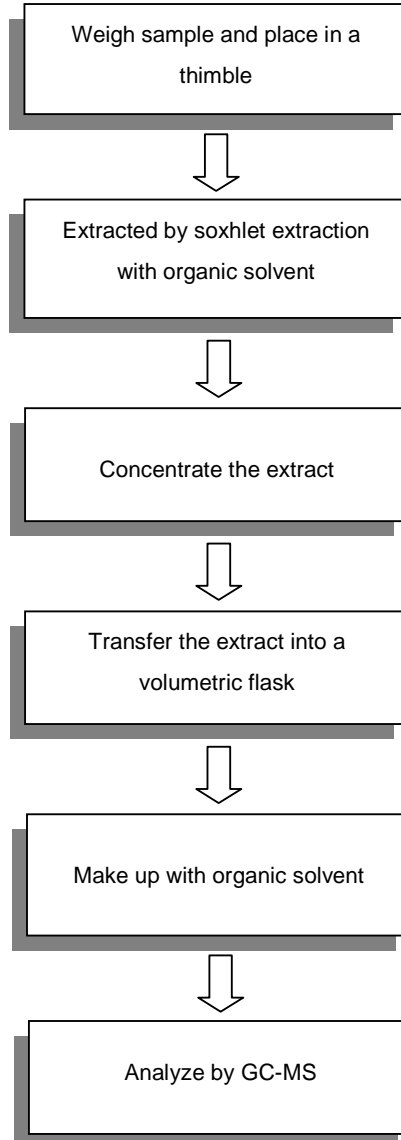
Remark : Detection Limit = 0.01%(w/w)
ND = Not Detected

To be continued

Tests Conducted

Measurement flowchart:

Test for **phthalate** content



To be continued



Test Report

Number: 131200757SHA-002

Tests Conducted

3. HBCDD content

(I)Test result summary:

<u>Testing item</u>	<u>Result (ppm)</u>
HBCDD (hexabromocyclododecane)	ND

Remarks: ppm = parts per million = mg/kg
ND = Not detected

(II) Test method:

<u>Testing item</u>	<u>Testing method</u>	<u>Reporting limit</u>
HBCDD (hexabromocyclododecane)	With reference to US EPA 3540C, by solvent extraction and determined by GC-MS	10 ppm

Date sample received: Dec. 13, 2013

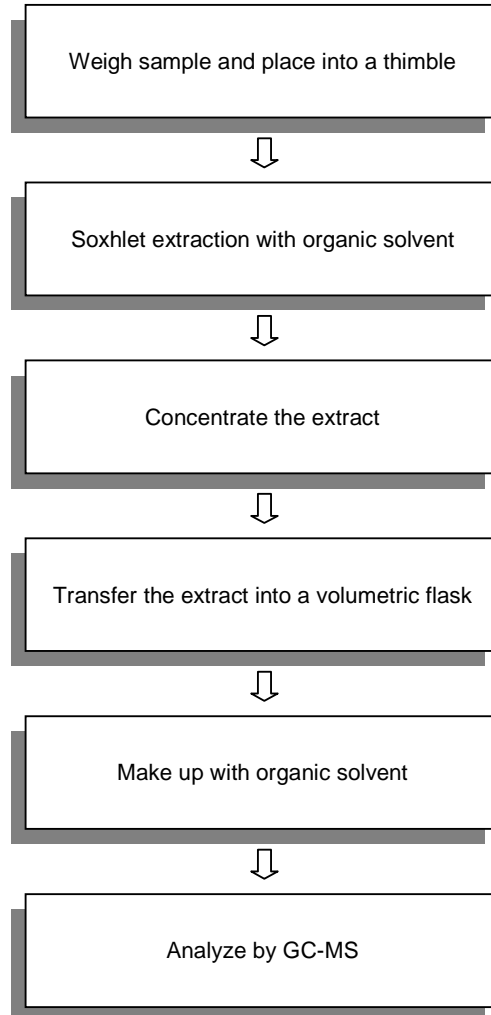
Testing period: Dec. 13, 2013 To Dec. 17, 2013

To be continued

Tests Conducted

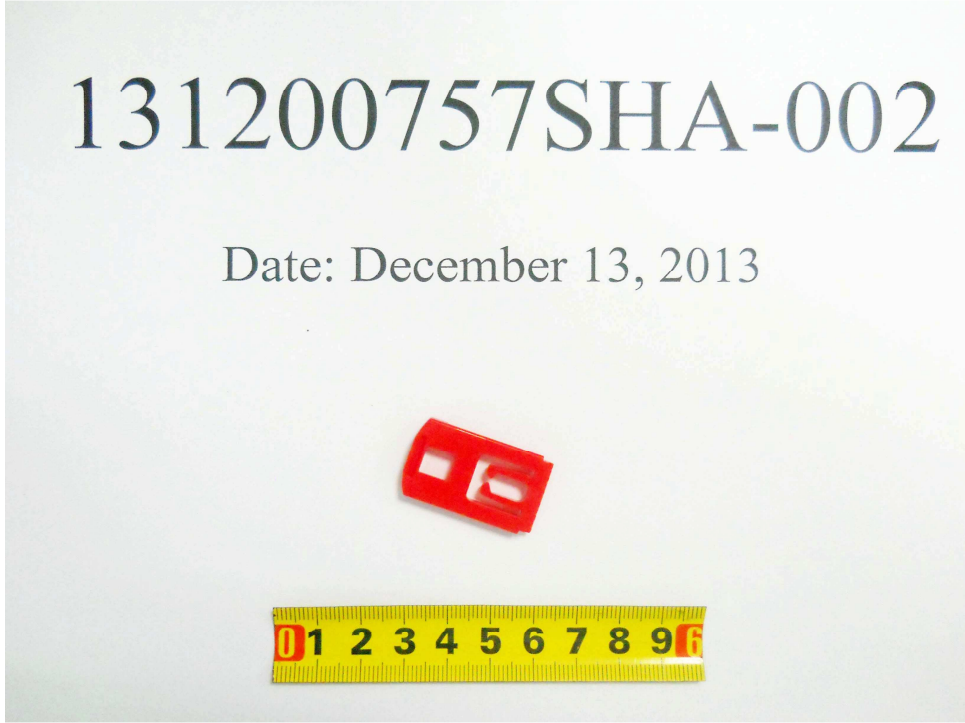
Measurement flowchart:

Test for HBCDD (hexabromocyclododecane) content



To be continued

Tests Conducted



End of report

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测试报告

No. SHAMPL1305938402

日期: 2013年04月17日

第1页,共4页

苏州鼎博金属材料科技有限公司

苏州市312国道上高路桥东堍振兴化工厂内31号厂房

以下测试之样品是由申请者所提供及确认: C1100(T2)

SGS工作编号: SC130402043(E) SC130402044(C) - SH
材质牌号: 紫铜
客户参考信息: SUZPL130400019
样品接收日期: 2013年04月11日
测试周期: 2013年04月11日 - 2013年04月17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

通标标准技术服务有限公司

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JJ Fan 范晶捷

批准签署人

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测试报告

No. SHAMPLP1305938402

日期: 2013年04月17日

第2页,共4页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	SHA13-059384.001	紫铜色金属板

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

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格的含量.

测试项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价格(CrVI)	-	-	◇	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◇点测试法:
阴性= 未检测到六价格,阳性 = 检测到六价格;
(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)
◇沸水萃取法:
阴性= 未检测到六价格
阳性= 检测到六价格; 表明50 cm²表面积的被测试样品的沸水萃取液中六价格的浓度等于或大于0.02 mg/kg
由于未获知样品的存储条件和生产日期, 样品的六价格测试结果仅能代表测试时样品含六价格的状态.

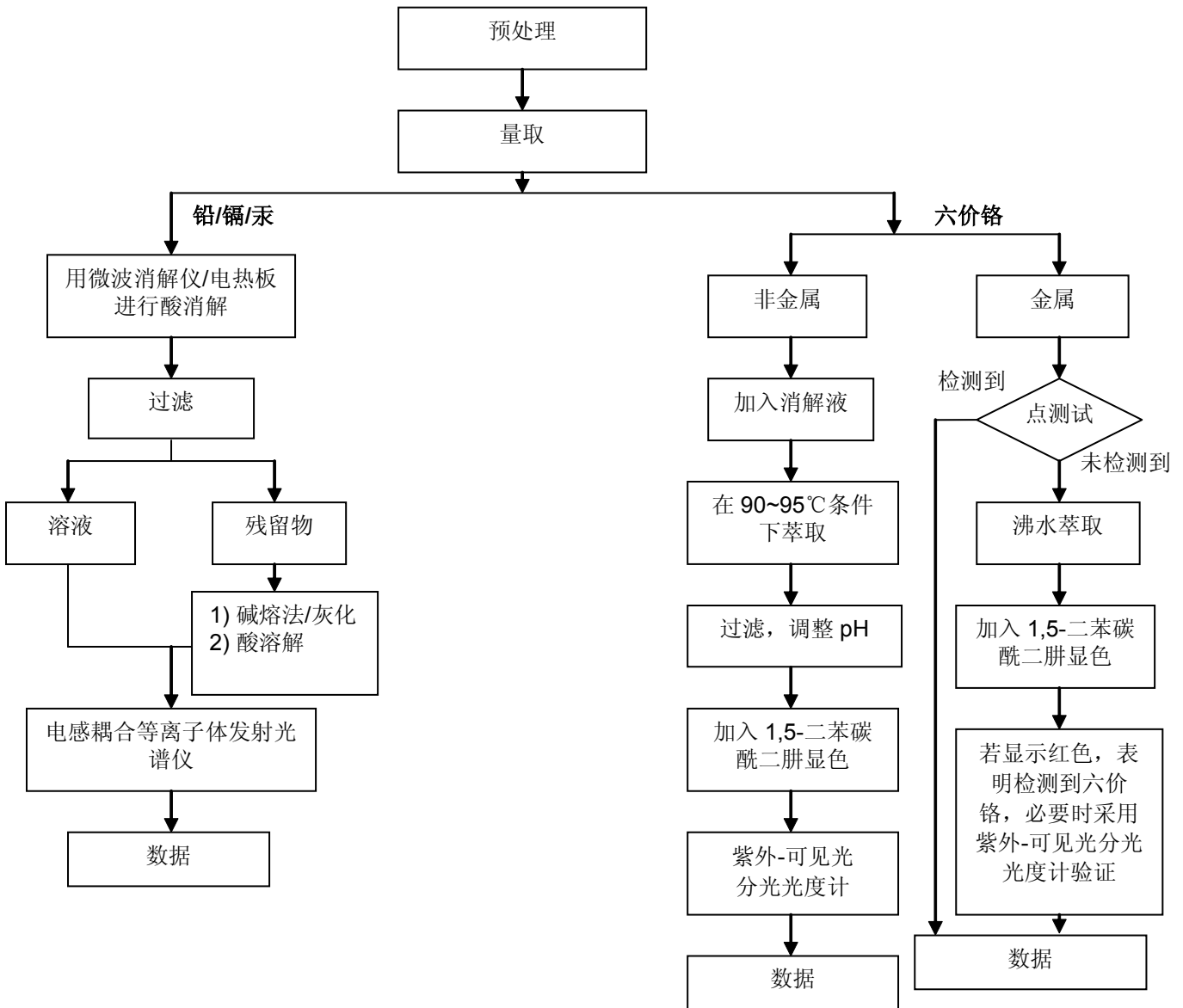
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附件

RoHS 测试流程图

- 1) 分析人员: 施青/王彦青/肖飞
- 2) 项目负责人: 张春华/徐亮
- 3) 样品按照下述流程被完全消解 (六价铬测试除外)



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测试报告

No. CANML1303384004

日期: 2013年03月21日 第1页,共4页

贝卡尔特(新余)金属制品有限公司
中国江西省新余市高新技术产业园区渝东大道3089号

以下测试之样品是由申请者所提供及确认: 钢丝

SGS工作编号: GC130301298 - GZ
内部编号: 18.4
客户参考信息: 钢号:65Mn
样品接收日期: 2013年03月18日
测试周期: 2013年03月18日 - 2013年03月21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: 基于所送样品进行的测试, 镉、铅、汞、六价铬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
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Trophy Zhang张浩华
批准签署人

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测试报告

No. CANML1303384004

日期: 2013年03月21日

第2页,共4页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	CAN13-033840.002	银灰色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 检测极限值
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

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

测试项目	限值	单位	MDL	002
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1,000	mg/kg	2	ND
汞(Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	◇	阴性

备注:

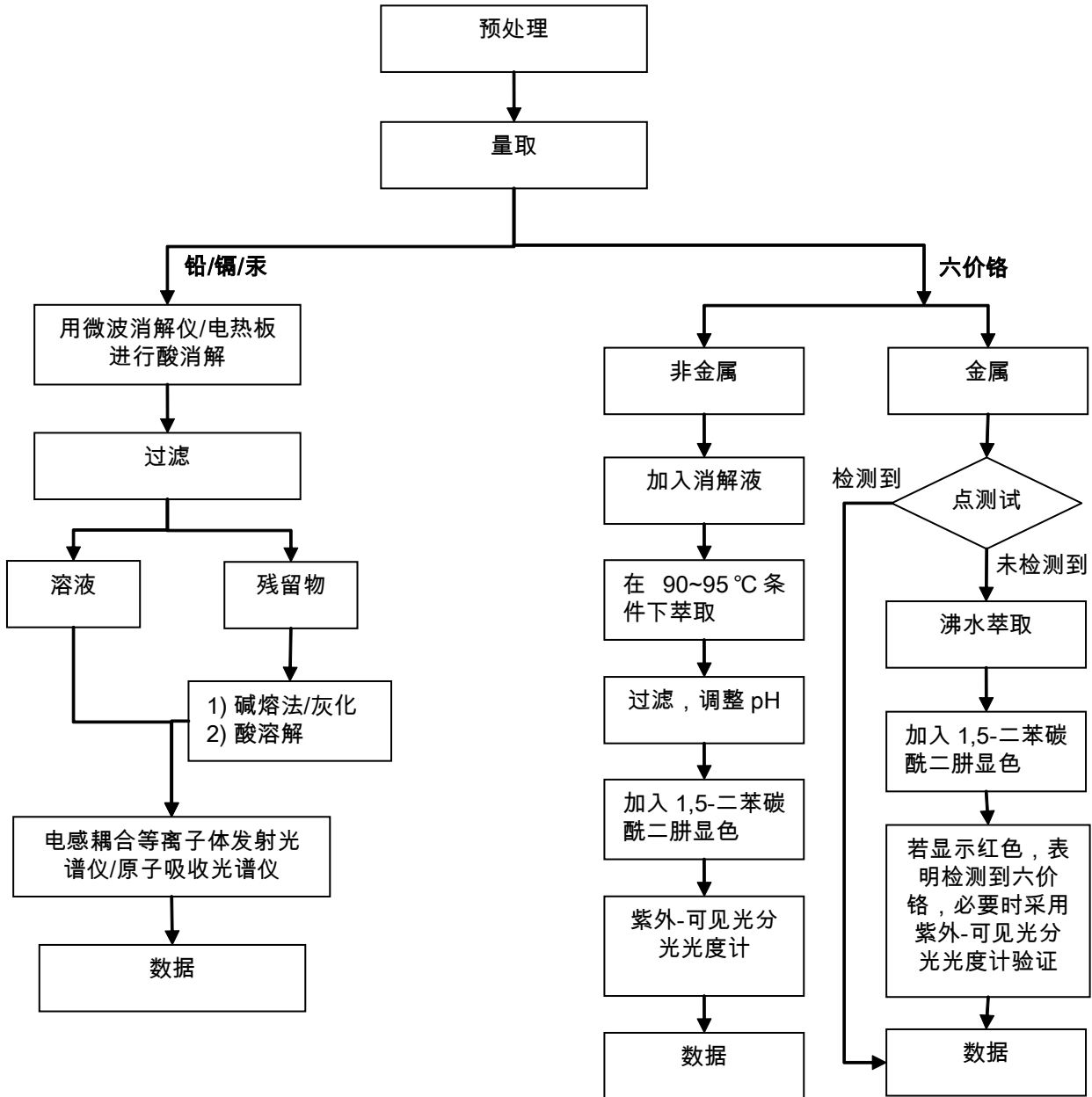
- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◇点测试法:
阴性= 未检测到六价铬, 阳性= 检测到六价铬;
(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)
◇沸水萃取法:
阴性= 未检测到六价铬
阳性= 检测到六价铬; 表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg
由于未获知样品的存储条件 and 生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

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附件

RoHS 测试流程图

- 1) 分析人员：曹阳
- 2) 项目负责人：余奕东
- 3) 样品按照下述流程被完全消解（六价铬测试除外）。



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样品照片:



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测试报告

No. NGBHG1300842901

日期: 2013年05月28日 第1页,共3页

宁波德精铝业科技有限公司
宁海县桥头胡街道九都路58,60号

以下测试之样品是由申请者所提供及确认: 铝管

SGS工作编号: NBHG201302339 - NB
 制造商: 宁波德精铝业科技有限公司
 款号: 6061 Φ32.6xΦ22.5
 样品接收日期: 2013年05月21日
 测试周期: 2013年05月21日 - 2013年05月28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

通标标准技术服务有限公司

授权签名

Iris Xiao 肖玲艳
批准签署人

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SGS-CTI Standards Technical Services Co., Ltd. 1177 West 46th Avenue, Toronto, Ont. M3J 0K9, Canada 315040 TEL: (86-574) 89070224 FAX: (86-574) 87782095 www.cn.sgs.com
 通标标准技术服务有限公司 中国·宁波·国家高新区凌云路1177号凌云产业园4号楼百1-2,5层 邮编: 315040 HL: (86-574) 89070209 HL: (86-574) 87768122 e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)



测试报告

No. NGBHG1300842901

日期: 2013年05月28日 第2页,共3页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	NGB13-008429.001	银色金属管

备注:

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

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.

测试项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	14
汞 (Hg)	1000	mg/kg	2	ND
六价铬 (CrVI)	-	-	◇	阴性

备注:

(1) 最大允许极限值引用自指令2011/65/EU 附录II.

(2) ◇点测试法:

阴性= 未检测到六价铬,阳性 = 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬;表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg

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能代表测试时样品含六价铬的状态.

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Authorised for testing, inspection, reports & certificates, please contact us at telephone: (86-755)83071443, or email: CH.Chen@sgs.com

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 中国·宁波·国家高新区三五路1177号凌云产业园4号楼1-2.5层 邮编: 315040 HL: (86-574) 89070209 HL: (86-574) 87768122 @ sgs.china@sgs.com

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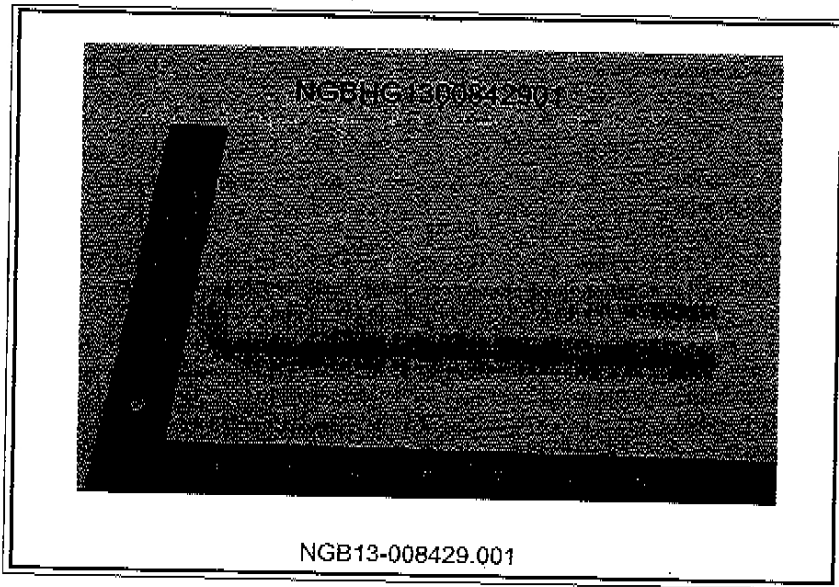


测试报告

No. NGBHG1300842901

日期: 2013年05月28日 第3页,共3页

样品照片:



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*** 报告完 ***

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SGS-Genève Inspection Services S.A. 12, rue des Coches, CH-1201 Genève, Suisse 315040 E&E (86-574) 89070224 F&E (86-574) 87782085 www.cn.sgs.com
Nagoya Branch: 3-1-10, Chikusa-ku, Nagoya, Japan 464-8601 中国·宁波·国家高新区梁云路1177号东云产业园4号楼西1-25层 邮编: 315040 HL: (86-574) 89070209 HL: (86-574) 87788122 e: sgs-china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

Report No. RHS06F001428001

Page 1 of 4

Applicant WENZHOU JANDA ELECTRONIC CO.,LTD

Address NO2,WANGLIN INDUSTRY ZONE,BEIBAIXIANG TOWN,YUEQING CITY.
ZHEJIANG PROVINCE,CHINA.325603

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name Steel
Sample Received Date Jul. 30, 2013
Testing Period Jul. 30, 2013 to Aug. 1, 2013

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis

Test Result(s) Please refer to the following page(s).

Tested by

Sha Chen

Reviewed by

Lin Zhang

Approved by

Wei Miao

Date

Aug. 1, 2013

Wei Miao

Approved Signatory

No. 1382077040

Centre Testing International(Ningbo)Co.,Ltd. 7-8/F/.,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhejiang,China

Test Report

Report No. RHS06F001428001

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Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg

Tested Item(s)	Result	MDL
Hexavalent Chromium(Cr(VI))	Negative	/

Tested Sample/Part Description Metal base

Note: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million
 -Negative = Absence of Cr(VI) , the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

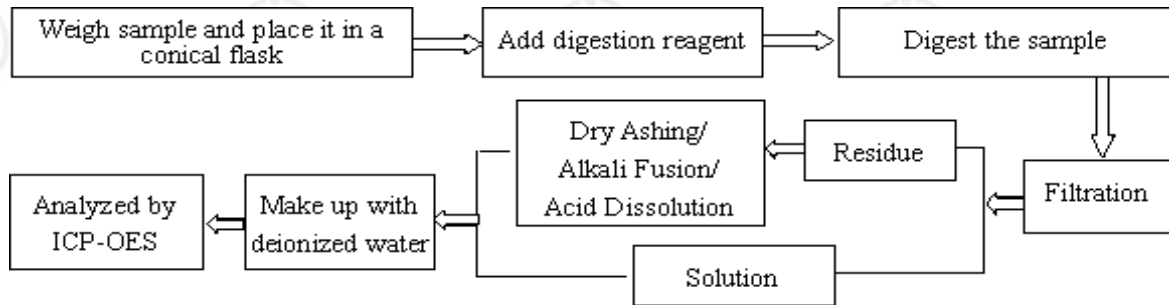
Test Report

Report No. RHS06F001428001

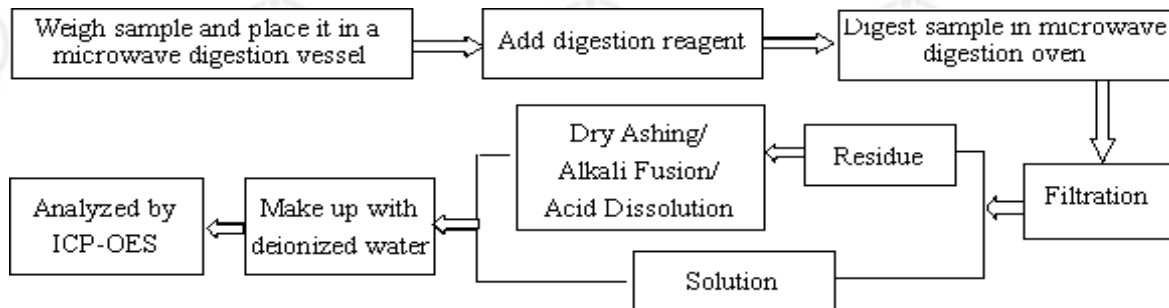
Page 3 of 4

Test Process

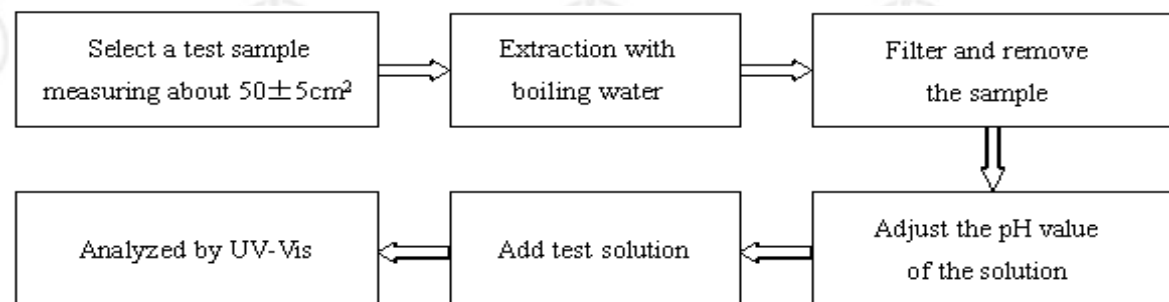
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



Test Report

Report No. RHS06F001428001

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Photo(s) of the sample(s)



*** End of report ***

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测试报告

No. SHAEC1322894506

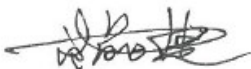
日期: 2013年11月29日 第1页,共5页

江苏伯乐达照明电器有限公司(盐城伯乐达新光源有限公司)
江苏盐城亭湖经济开发区华亭路1号

以下测试之样品是由申请者所提供及确认: NE-2染红漆氙灯

SGS工作编号: SP13-033825 - SH
成分: 镀镍铁丝、杜美丝、玻璃管、灯泡漆
样品接收日期: 2013年11月21日
测试周期: 2013年11月21日 - 2013年11月26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

通标标准技术服务有限公司
授权签名



JJ Fan 范晶捷
批准签署人

本报告是编号为SHAEC1322894505报告的中文版本.

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测试报告

No. SHAEC1322894506

日期: 2013年11月29日

第2页,共5页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
1	SHA13-228945.009	红色本体部分(混合测*)

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

RoHS指令2011/65/EU

- 测试方法:
- (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
 - (2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
 - (3) 参考IEC 62321-4:2013, 用ICP-OES测定汞的含量
 - (4) 参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量
 - (5) 参考IEC 62321:2008, 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	009
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	16
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	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)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND

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测试报告

No. SHAEC1322894506

日期: 2013年11月29日

第3页,共5页

测试项目	限值	单位	MDL	009
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.

备注:*样品基于申请人要求为混合测试。报告中的混合测试结果不代表其中个别单一材质的含量，该测试数据仅供参考

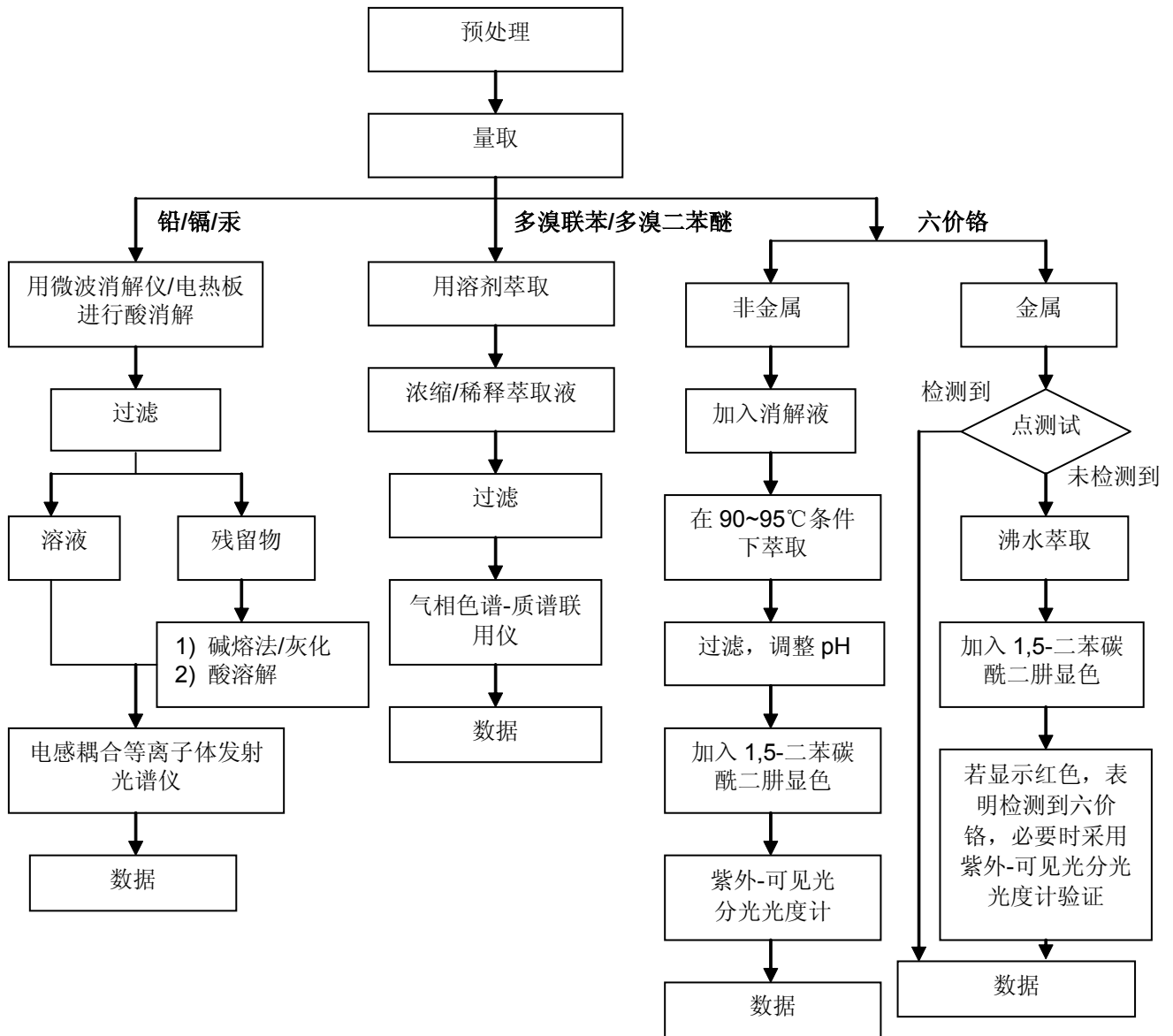
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附件

RoHS 测试流程图

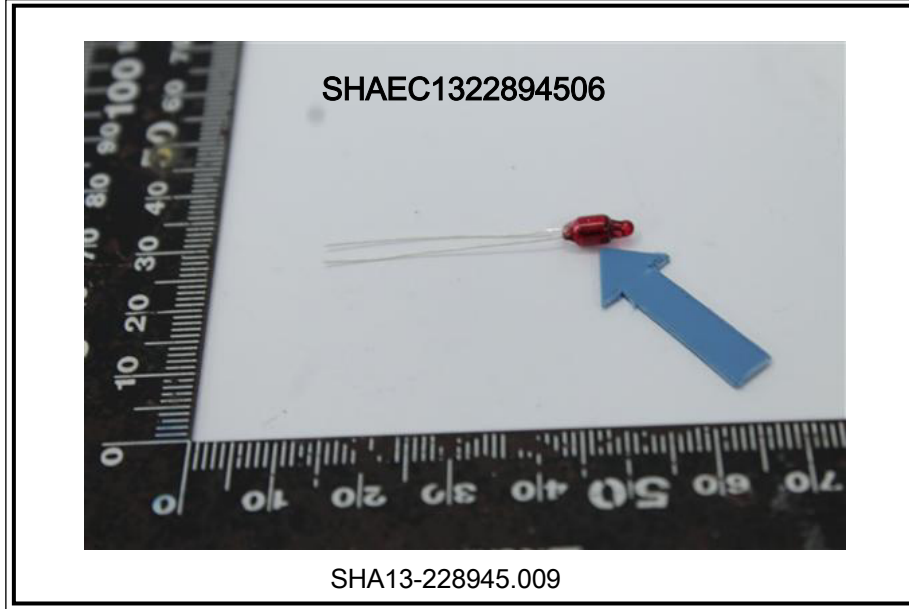
- 1) 分析人员: 施青/汪红新/王晓艳/徐刚
- 2) 项目负责人: 张春华/徐亮/黄婷
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。



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Test Report

No. CANEC1300373503

Date: 11 Jan 2013

Page 1 of 5

CHAOZHOU THREE-CIRCLE (GROUP) CO.,LTD

SAN HUAN INDUSTRIAL DISTRICT,FENGTANG TOWN,CHAOZHOU CITY,GUANGDONG PROVINCE
515646, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : METAL OXIDE FILM RESISTORS RSFB & RSFS & RY

SGS Job No. : CP13-000815 - GZ
Date of Sample Received : 08 Jan 2013
Testing Period : 08 Jan 2013 - 11 Jan 2013
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.



Almay Gao
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-003735.002	METAL OXIDE FILM RESISTORS RSFB & RSFS & RY(mixed)

Remarks :

- (1) 1 mg/kg = 1 ppm = 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 / PBDEs content by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	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

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Test Report

No. CANEC1300373503

Date: 11 Jan 2013

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
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

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

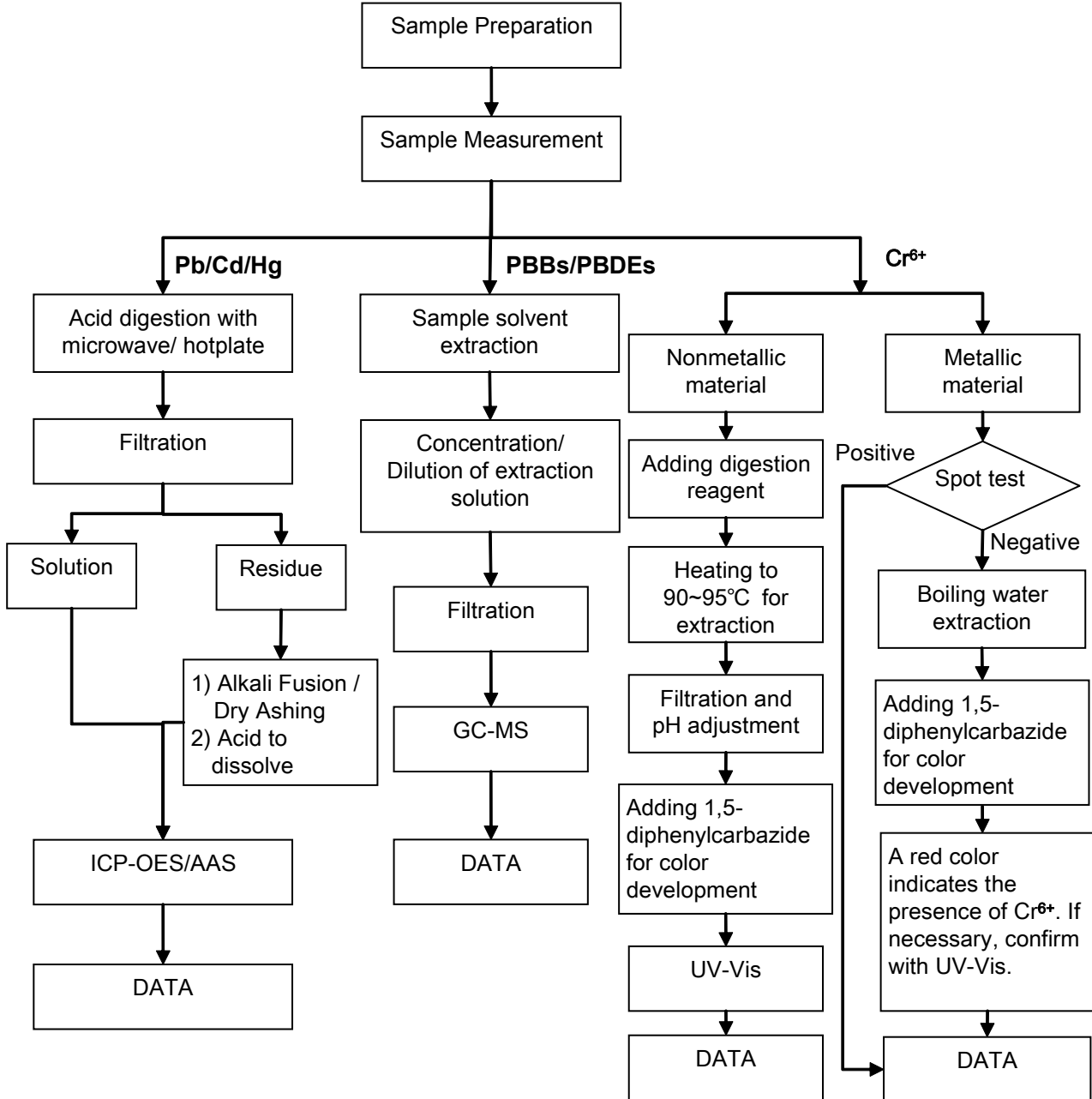
Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

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ATTACHMENTS

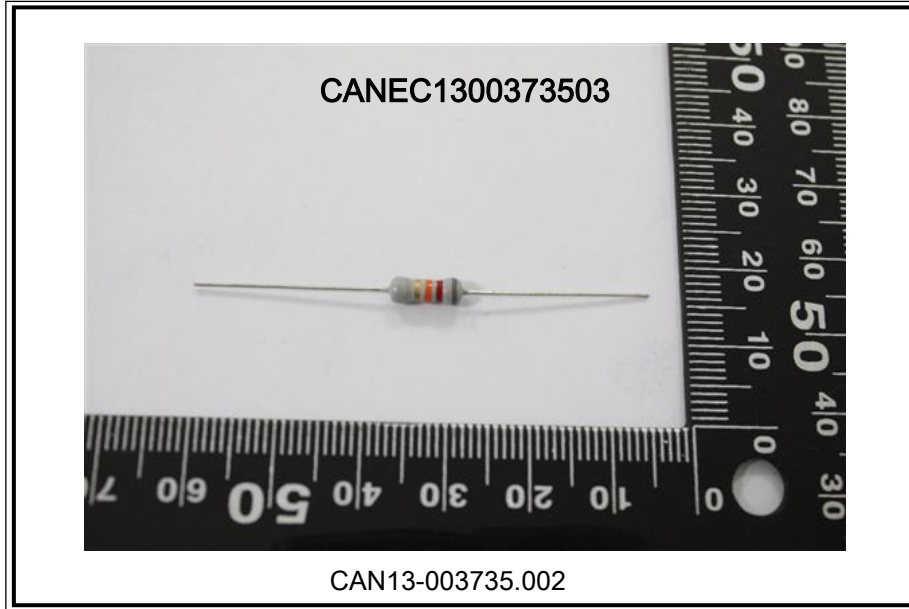
RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) 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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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No. CANEC1302376501

Date: 11 Mar 2013

Page 1 of 14

YUEQING BOYUAN ELECTRONIC WIRE&CABLE CO.,LTD
NO.89 SHAHONG RD BAIXIANG YUEQING ZHEJIANG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : WIRE&CABLE

SGS Job No. : CP13-007223 - SZ
Tested Sample Info. : 2468,1015
Client Ref. Info. : Plastic insulation/black,brown,red,orange,yellow,green,blue,purple,
gray,white,tinned or bare copper conductor.
Model No.:PLEASE SEE REMARK
Date of Sample Received : 28 Feb 2013
Testing Period : 28 Feb 2013 - 08 Mar 2013
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 samples, the results of Lead,
Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB),
Polybrominated diphenyl ethers (PBDE) comply with the limits as set by 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	CAN13-023765.001	White plastic w/ red printing (jacket)
2	CAN13-023765.002	Grey plastic w/ black printing (jacket)
3	CAN13-023765.003	Blue plastic w/ black printing (jacket)
4	CAN13-023765.004	Purple plastic w/ white printing (jacket)
5	CAN13-023765.005	Green plastic w/ black printing (jacket)
6	CAN13-023765.006	Orange plastic w/ black printing (jacket)
7	CAN13-023765.007	Red plastic w/ black printing (jacket)
8	CAN13-023765.008	Brown plastic w/ black printing (jacket)
9	CAN13-023765.009	Black plastic w/ white printing (jacket)
10	CAN13-023765.010	Yellow plastic w/ black printing (jacket)
11	CAN13-023765.011	Silvery 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 Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND

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Test Item(s)	Limit	Unit	MDL	004	005	006
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	008	009
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</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 (CrVI)	1,000	mg/kg	2	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
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

Notes :

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

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.
- (5) Determination of PBBs / PBDEs by GC-MS.

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</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 (CrVI)	-	-	◇	Negative
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
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

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

(2)◇Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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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REMARK:

UL STYLE:1007 1017 1032 1185 1430 1569 1605 1672 1015 1028 1061 1283 1509

1571 1617 1743 1016 1030 1095 1347 1533 1581 1618 2127 2464 2532 2576

2876 2933 2970 20288 2405 2468 2547 2854 2877 2961 20002 20080;

CCC STYLE:60227IEC02(RV) 60227IEC06(RV) 60227IEC08(RV-90) AVR

60227IEC52(RVV) 60227IEC53(RVV) AVVR;

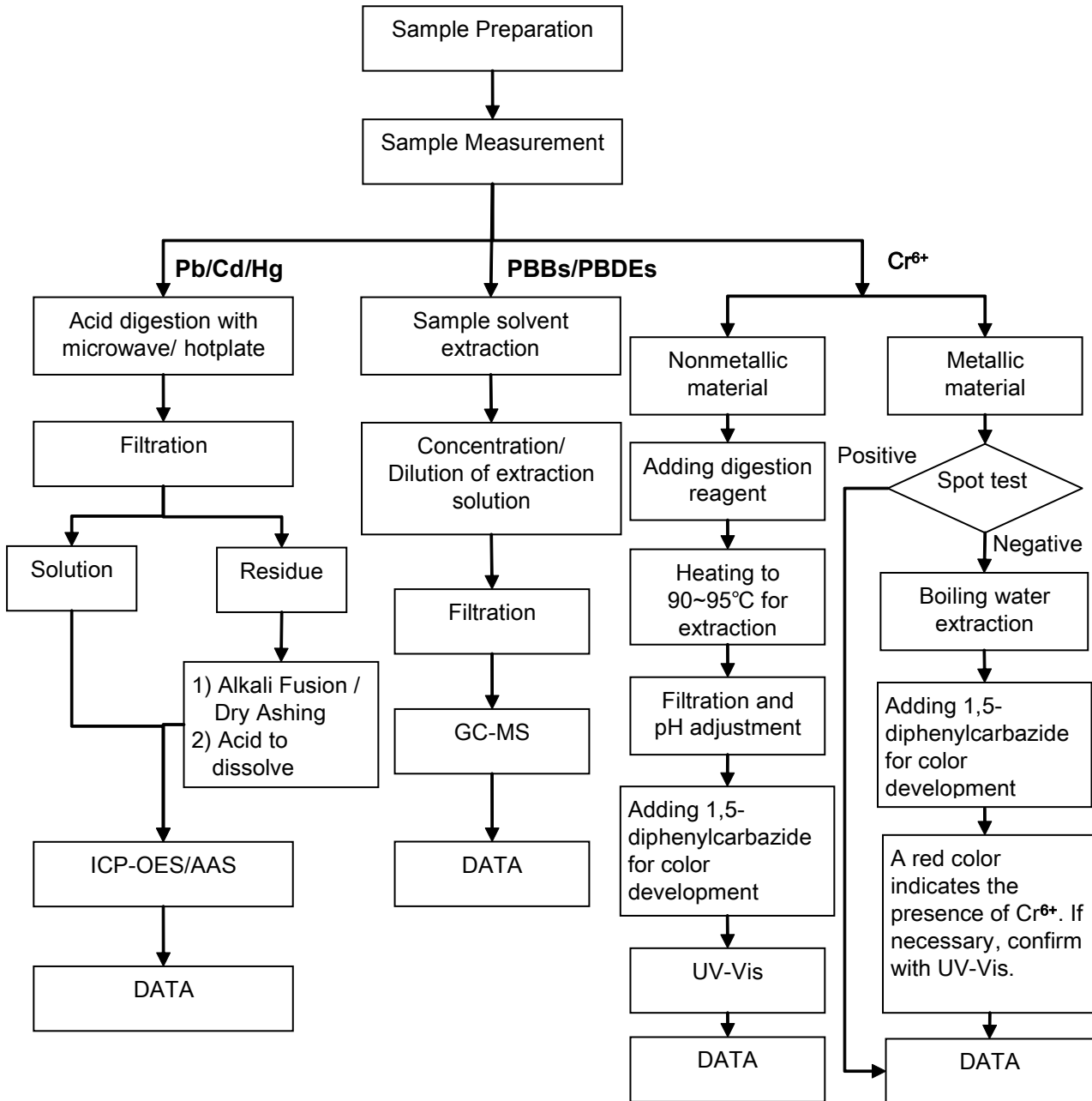
CQC STYLE:QVR QVR-105;

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ATTACHMENTS

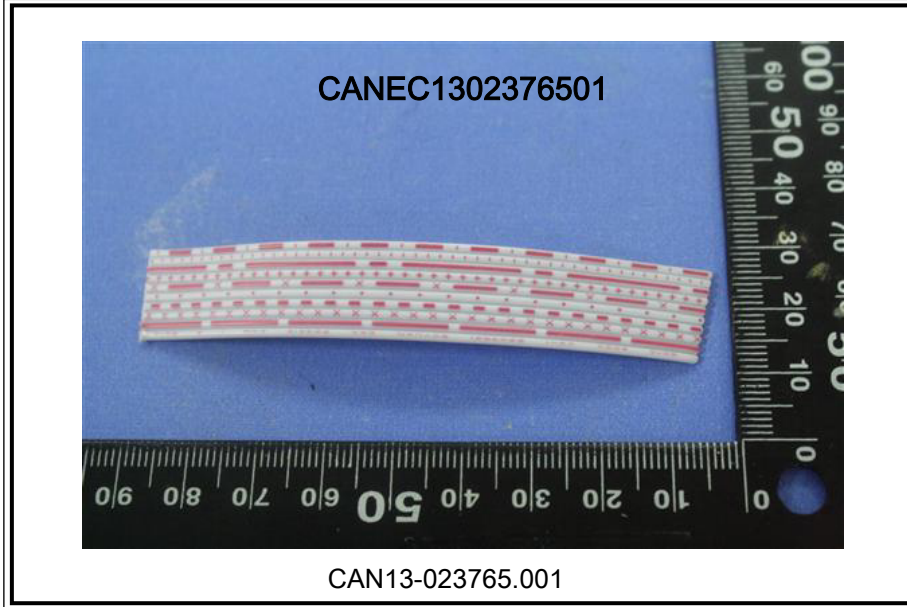
RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) 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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Sample photo:

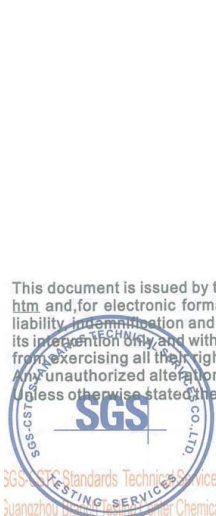


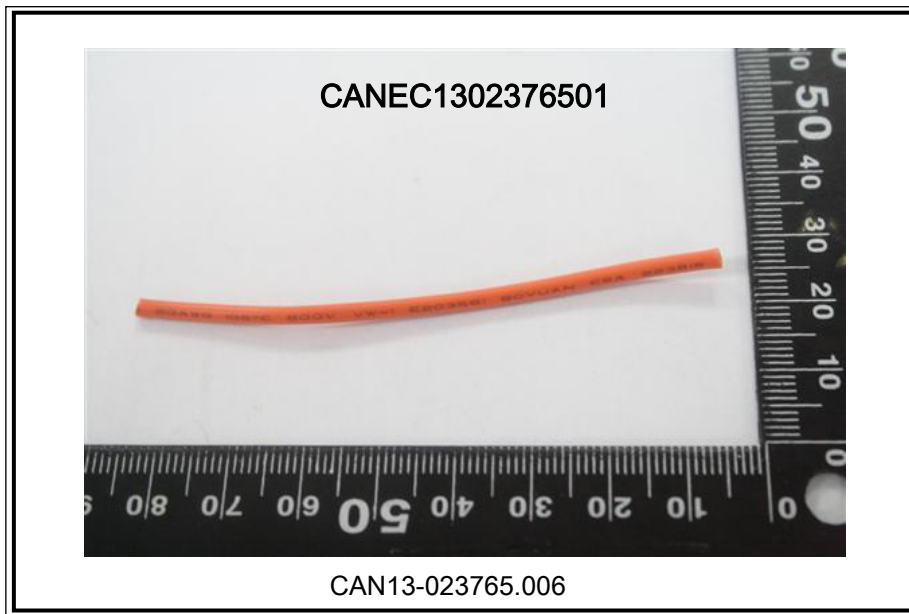
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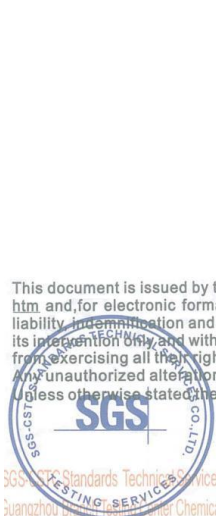
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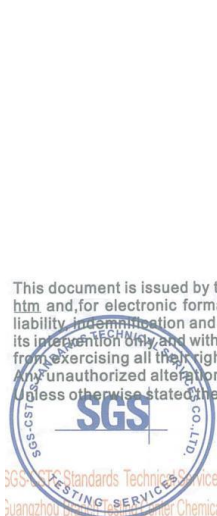


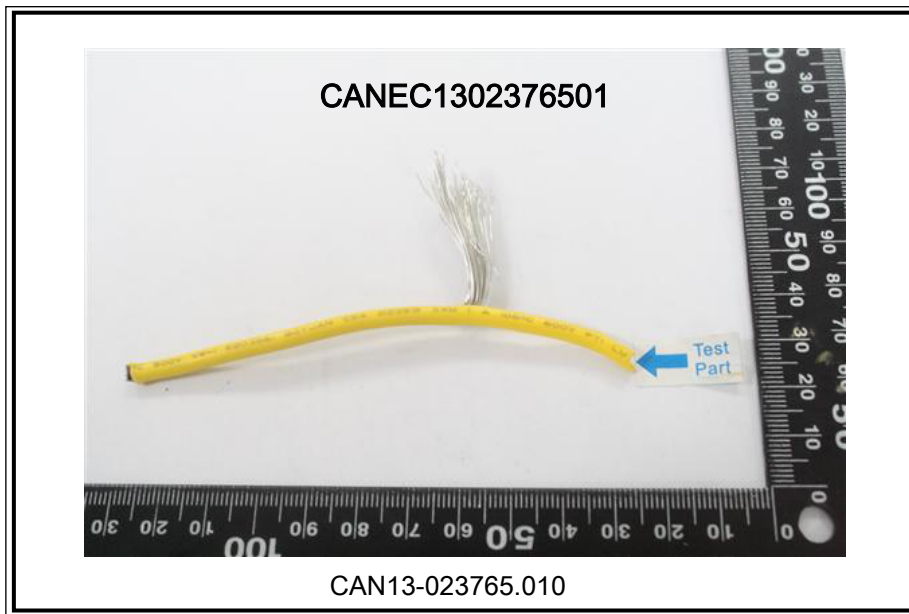
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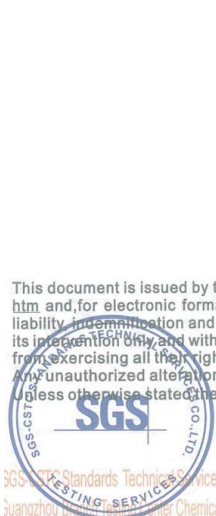


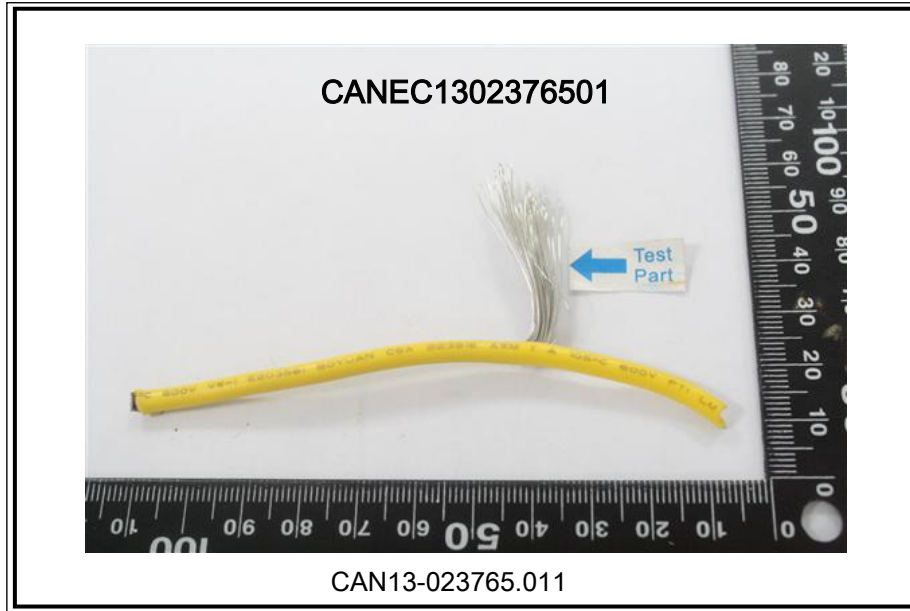
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Test Report

Report No. RLNBF000132750003

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Applicant YUEQING JINSHI DIANDU CO.,LTD

Address AS SOUTH TARIM ROAD42,NORTH WHITE ELEPHANT YUEQING CITY,ZHEJIANG PROVINCE,CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name electroplate Sn
Material brass
Sample Received Date Apr. 1, 2013
Testing Period Apr. 1, 2013 to Apr. 7, 2013

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the plating of submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	Refer to IEC 62321:2008 Ed.1 *	ICP-OES
Cadmium(Cd)	Refer to IEC 62321:2008 Ed.1 *	ICP-OES
Mercury(Hg)	Refer to IEC 62321:2008 Ed.1 *	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis

*=Appropriate acid is used for deplating, and the solution is analyzed by ICP-OES.

Test Result(s) Please refer to the following page(s).

Tested by

Sha Chen

Reviewed by

Lin Zhang

Approved by

Wei Miao

Date

Apr. 7, 2013

Wei Miao

Approved Signatory

No. 1382099960

Centre Testing International(Ningbo)Co.,Ltd. 7-8/F./.,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhejiang,China

Test Report

Report No. RLNBF000132750003

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Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	222 mg/kg	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	Negative	/

Tested Sample/Part Description Silvery plating

Note: The washed plating had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

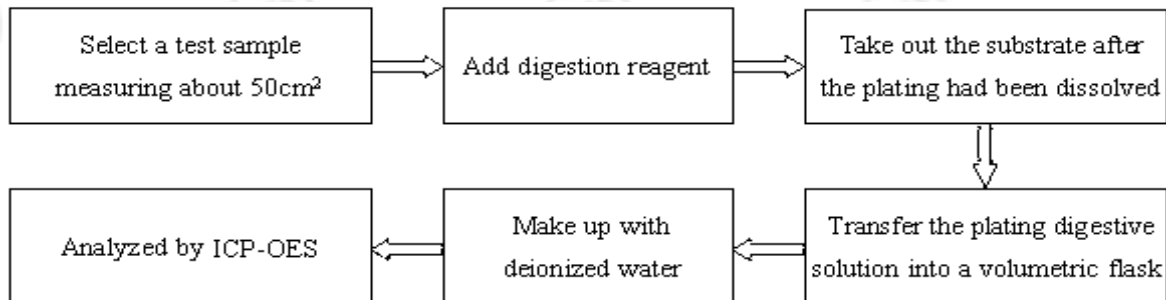
Test Report

Report No. RLNBF000132750003

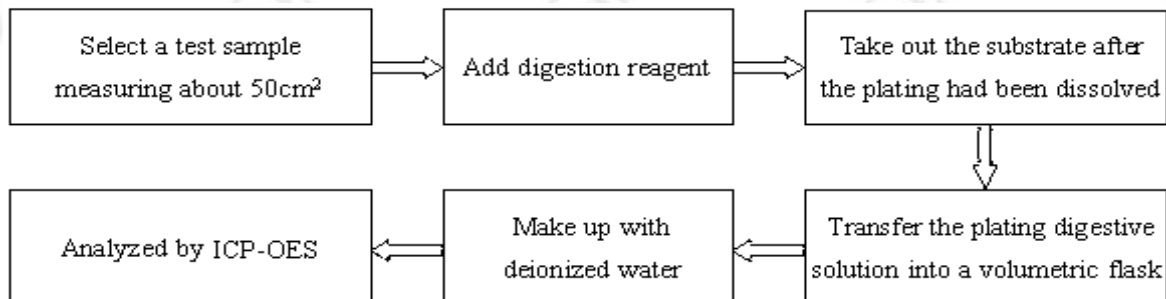
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Test Process

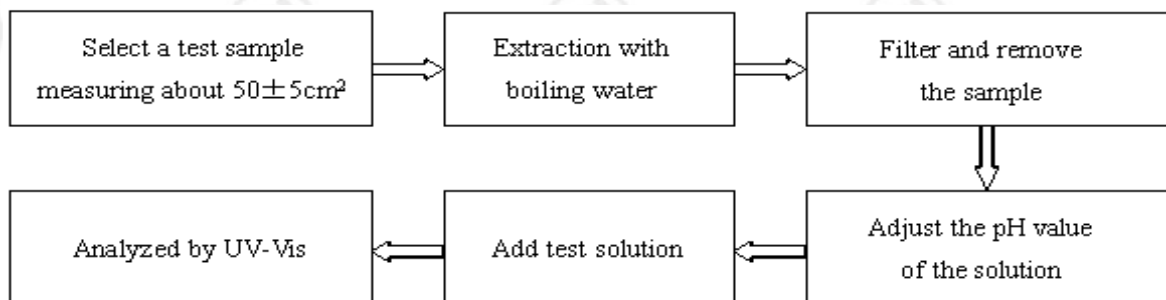
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



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Photo(s) of the sample(s)



*** End of report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

Test Report

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Applicant YUEQING JINSHI DIANDU CO.,LTD

Address AS SOUTH TARIM ROAD42,NORTH WHITE ELEPHANT YUEQING CITY,ZHEJIANG PROVINCE,CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name electroplate Zn
Material iron
Sample Received Date Apr. 1, 2013
Testing Period Apr. 1, 2013 to Apr. 7, 2013

Test Requested As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the plating of submitted sample(s).

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	Refer to IEC 62321:2008 Ed.1 *	ICP-OES
Cadmium(Cd)	Refer to IEC 62321:2008 Ed.1 *	ICP-OES
Mercury(Hg)	Refer to IEC 62321:2008 Ed.1 *	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis

*=Appropriate acid is used for deplating, and the solution is analyzed by ICP-OES.

Test Result(s) Please refer to the following page(s).

Tested by

Sha Chen

Reviewed by

Lin Zhang

Approved by

Wei Miao

Date

Apr. 7, 2013

Wei Miao

Approved Signatory

No. 1382099960

Centre Testing International(Ningbo)Co.,Ltd. 7-8/F/.,Building A,No.750.Chuangyuan Road,Gaoxin District,Ningbo,Zhejiang,China

Test Report

Report No. RLNBF000132750001

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Test Result(s)

Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	Negative	/

Tested Sample/Part Description Light blue plating

Note: The washed plating had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

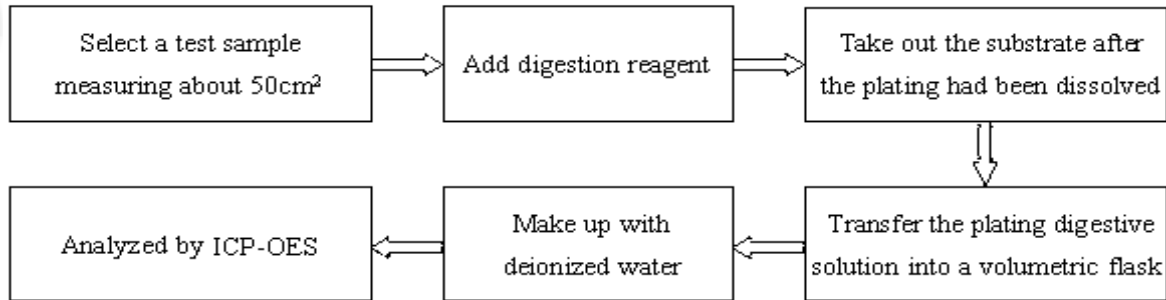
Test Report

Report No. RLNBF000132750001

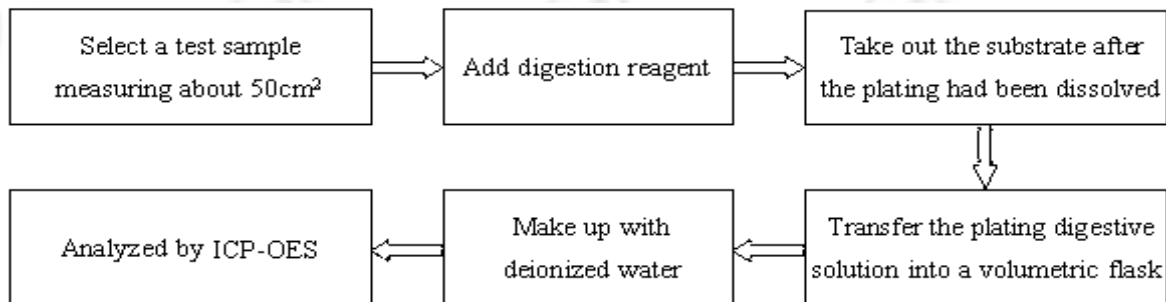
Page 3 of 4

Test Process

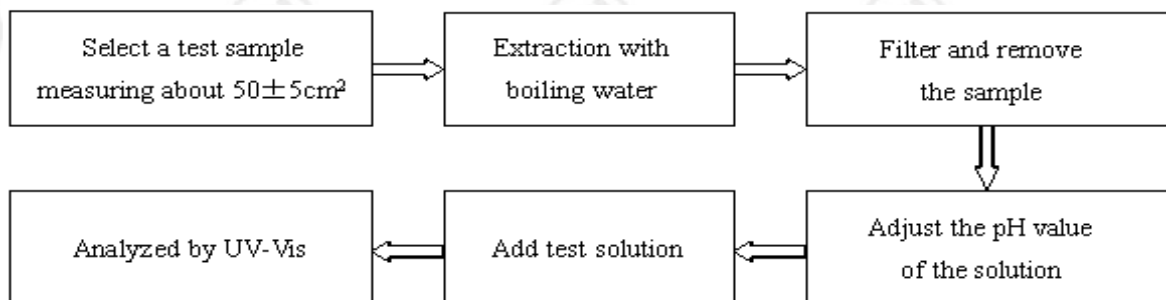
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

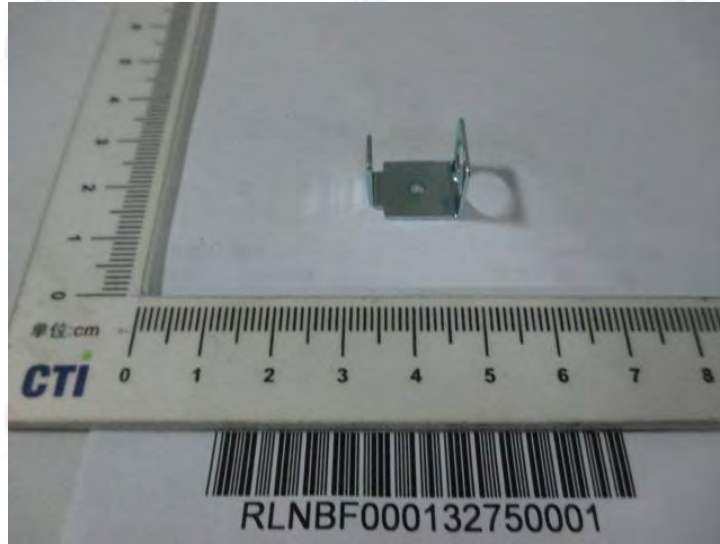


Test Report

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Photo(s) of the sample(s)



*** End of report ***

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