



## ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: **L60030 Series – Fuse Block**

Product #:  
L60030M\*1C(\*2C\*3C)  
L60030\*M3SQ (M1SQ—M2SQ)  
L60030\*M3PQ (M1PQ—M2PQ)  
L60030\*C1C(\*C2C \*C3C)  
L60030C\*1SQ(\*2SQ\*3SQ)  
L60030C\*1PQ(\*2PQ\*3PQ)

Issue Date: June 19, 2013

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2011/65/EU, recasting 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/package 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/package 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 L60030 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**

<b>Total Parts</b>	<b>Raw Material Part Number</b>	<b>Raw Material Description</b>	<b>Page(s)</b>
1	868-069	Fuse Block (PBT Valox)	3-11
2	882-649	Rejection Member (PBT Valox) (same with 868-069)	3-11
3	100060	Fuse Clip (Cu Alloy)	12-16
4	100069	Fuse Clip (Cu Alloy)	12-16
5	902-122	Self Tapping Phillips screw (Steel)	17-20
6	902-119	Type B Self Tapping Screw (Steel)	17-20
7	903-117	Square Nut (Steel)	17-20
8	902-139	Binding Head Screw (Steel)	17-20
9	902-140	Pressure Plate Screw (Steel)	17-20
10	929-023	Guide Spring (304 Steel)	21-24
11	N/A	Tin Plating of Cu Alloy	25-28
12	N/A	Zinc Plating of 304 Steel	29-32
13	N/A	Printing Ink	33-41



**Test Report**

Number : TWNC00268062

Applicant: Littelfuse Philippines Inc.  
LIMA Technology Center, Lipa City,  
Malvar, Batangas

Date : Jul 27, 2012

**Sample Description:**

One (1) group of submitted samples said to be :

Part Description : PBT Valox

Date Sample Received : Jul 20, 2012

Date Test Started : Jul 21, 2012

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**Test Conducted :**

As requested by the applicant, for details please refer to attached pages.

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Authorized By:

On Behalf Of Intertek Testing Services  
Taiwan Limited



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K. Y. Liang  
Director

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approval of the laboratory.

Number : TWNC00268062

Test Conducted

(I) Test Result Summary :

Test Item	Result (ppm)
	Black Plastic
<b>Heavy Metal</b>	
Cadmium (Cd) content	ND
Lead (Pb) content	22
Mercury (Hg) content	ND
Chromium VI (Cr <sup>6+</sup> ) content	ND
<b>Polybrominated Biphenyls (PBBs)</b>	
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
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>	
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
<b>Halogen Content</b>	
Fluorine (F)	133
Chlorine (Cl)	ND
Bromine (Br)	34674
Iodine (I)	ND
<b>Phthalates</b>	
Di(2-ethylhexyl) Phthalate (DEHP)	ND
Dibutyl Phthalate (DBP)	ND
Benzyl Butyl Phthalate (BBP)	ND

Number : TWNC00268062

Test Conducted

( I ) Test Result Summary :

<u>Test Item</u>	<u>Result (ppm)</u>
	<u>Black Plastic</u>
<b>Others</b>	
Hexabromocyclododecane (HBCDD)	ND

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg  
ND = Not detected

Responsibility of Chemist : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received : Jul 20, 2012

Test Period : Jul 21, 2012 To Jul 27, 2012

( II ) RoHS Limits:

<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 <sup>6+</sup> ) Content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ehters (PBDEs)	0.1% (1000ppm)

The above limits were quoted from Annex II of 2011/65/EU for homogeneous material.

Test Conducted

(III) Test Method:

Test Item	Test Method	Reporting Limit
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 ( $\text{Cr}^{6+}$ ) 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-MS and further HPLC-DAD 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-MS and further HPLC-DAD confirmation when necessary.	5 ppm
Halogen Content	With reference to EN 14582:2007 by calorimetric bomb with oxygen and determined by Ion Chromatograph.	50 ppm
Phthalates	With reference to EN 14372: 2004, by solvent extraction and determined by GC-MS.	50 ppm
Hexabromocyclododecane (HBCDD)	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD.	10 ppm

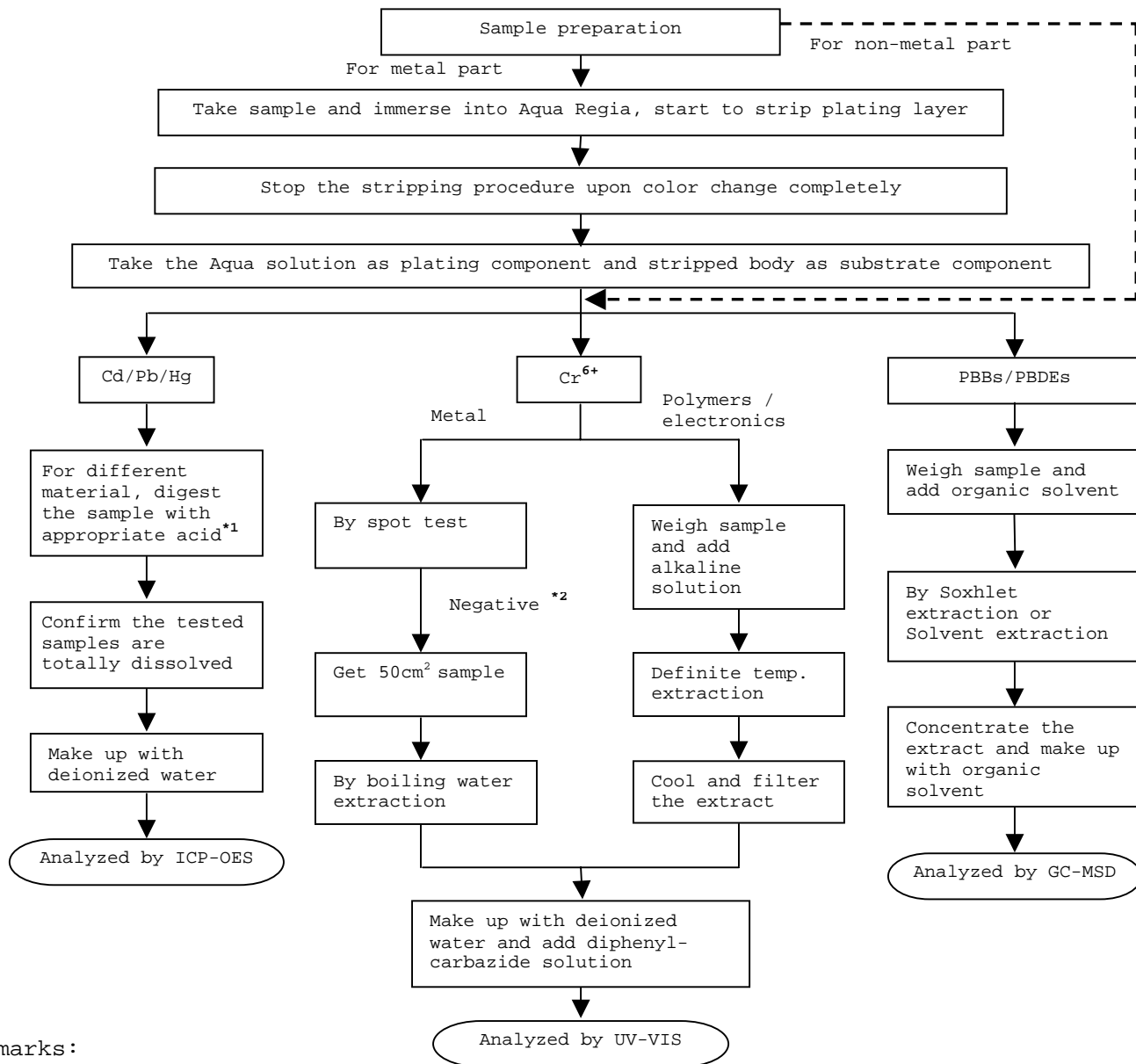
Remark: Reporting limit = Quantitation limit of analyte in sample

Test Conducted

(IV) Measurement Flowchart:

Test for Cd/Pb/Hg/Chromium (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 <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>3</sub> BO <sub>3</sub>
Metals	HNO <sub>3</sub> , HCl, HF
Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>

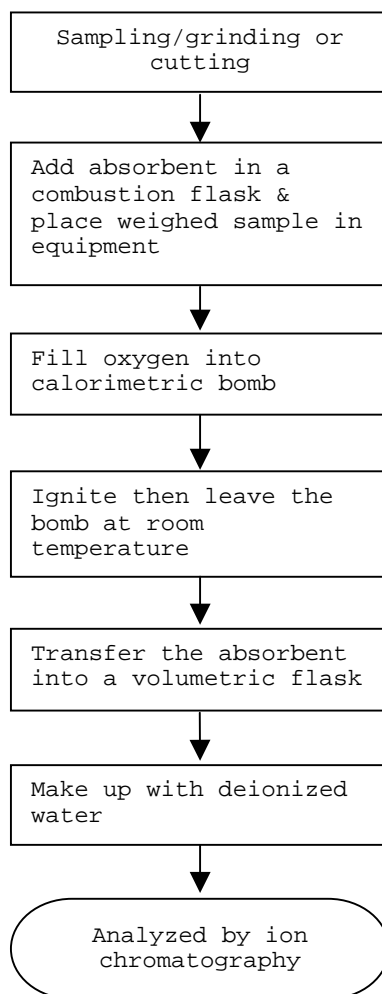
\*2: If the result of spot test is positive, Chromium VI would be determined as detected.

Test Conducted

(IV) Measurement Flowchart:

Test for Halogen Content

Reference Standard : EN 14582



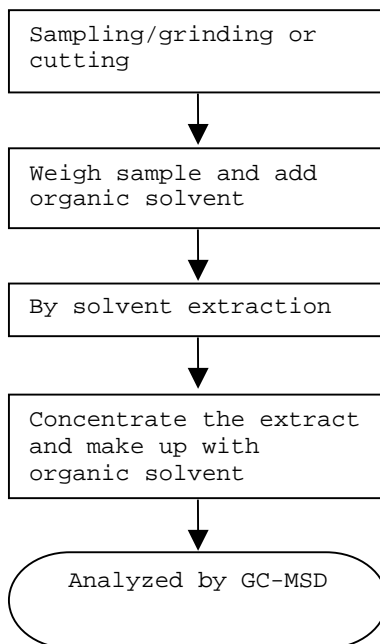


Test Conducted

(IV) Measurement Flowchart:

Test For Phthalates Contents

Reference Method: EN 14372: 2004

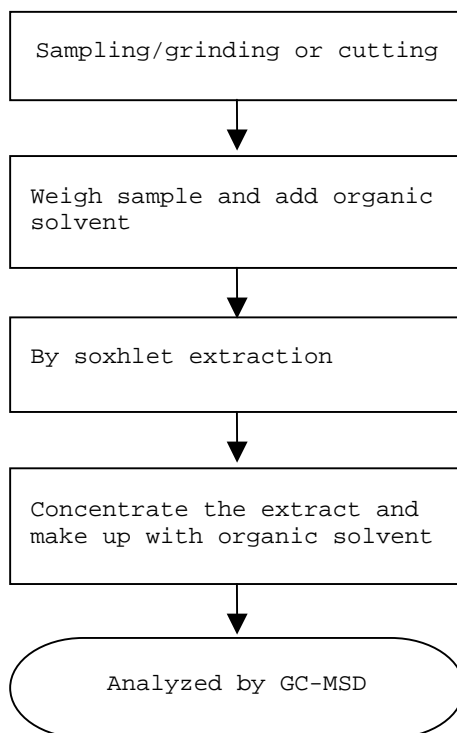


Test Conducted

(IV) Measurement Flowchart:

Test For Hexabromocyclododecane (HBCDD)

Reference Standard : USEPA 3540C



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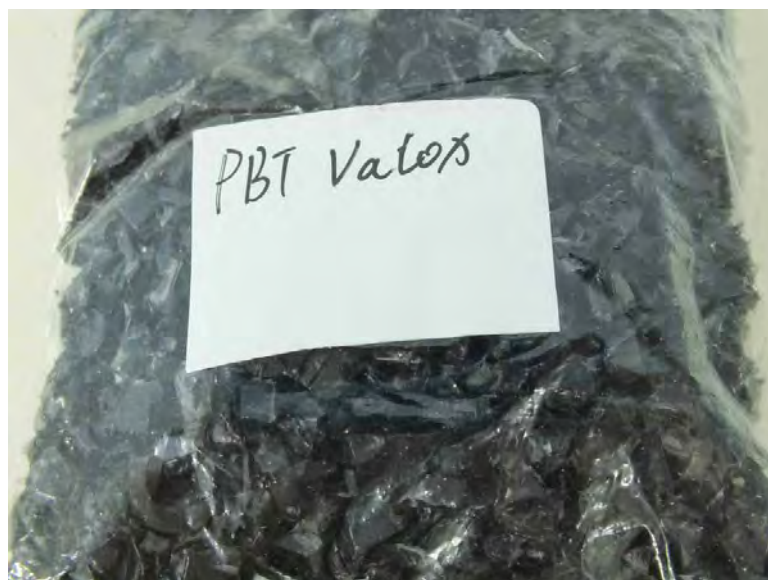
End of Report

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Test Conducted

Number : TWNC00268062

Photo



## 测试报告

No. SHAEC1223018810

日期: 2013年01月08日 第1页,共5页

宁波兴铜金属材料有限公司/宁波兴业盛泰集团有限公司  
浙江省慈溪经济开发区杭州湾新区金溪路2-9号

以下测试之样品是由申请者所提供及确认: 锡磷青铜

SGS工作编号: SP12-037491 - SH  
型号: C5191(QSn6.5-0.1)  
批号: 12/1-34  
样品接收日期: 2012年12月28日  
测试周期: 2012年12月28日 - 2013年01月07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  
授权签名



JJ Fan 范晶捷  
批准签署人

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## 测试报告

No. SHAEC1223018810

日期: 2013年01月08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	SHA12-230188.005	铜色金属

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	005
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	17
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 cm<sup>2</sup>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.

### EN 71 Part3:1994 + A1:2000+ AC:2002—几种元素的转移

测试方法: 参照EN 71 Part 3:1994+ A1:2000 + AC:2002 方法测定, 采用ICP- OES进行分析.

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## 测试报告

No. SHAEC1223018810

日期: 2013年01月08日

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测试项目	限值	单位	MDL	005
可溶性铅 (Pb)	90	mg/kg	5	ND
可溶性锑 (Sb)	60	mg/kg	5	ND
可溶性砷 (As)	25	mg/kg	2.5	ND
可溶性钡 (Ba)	1000	mg/kg	10	ND
可溶性镉 (Cd)	75	mg/kg	5	ND
可溶性铬 (Cr)	60	mg/kg	5	ND
可溶性汞 (Hg)	60	mg/kg	5	ND
可溶性硒 (Se)	500	mg/kg	10	ND

备注:

(1) 结果经分析调整。

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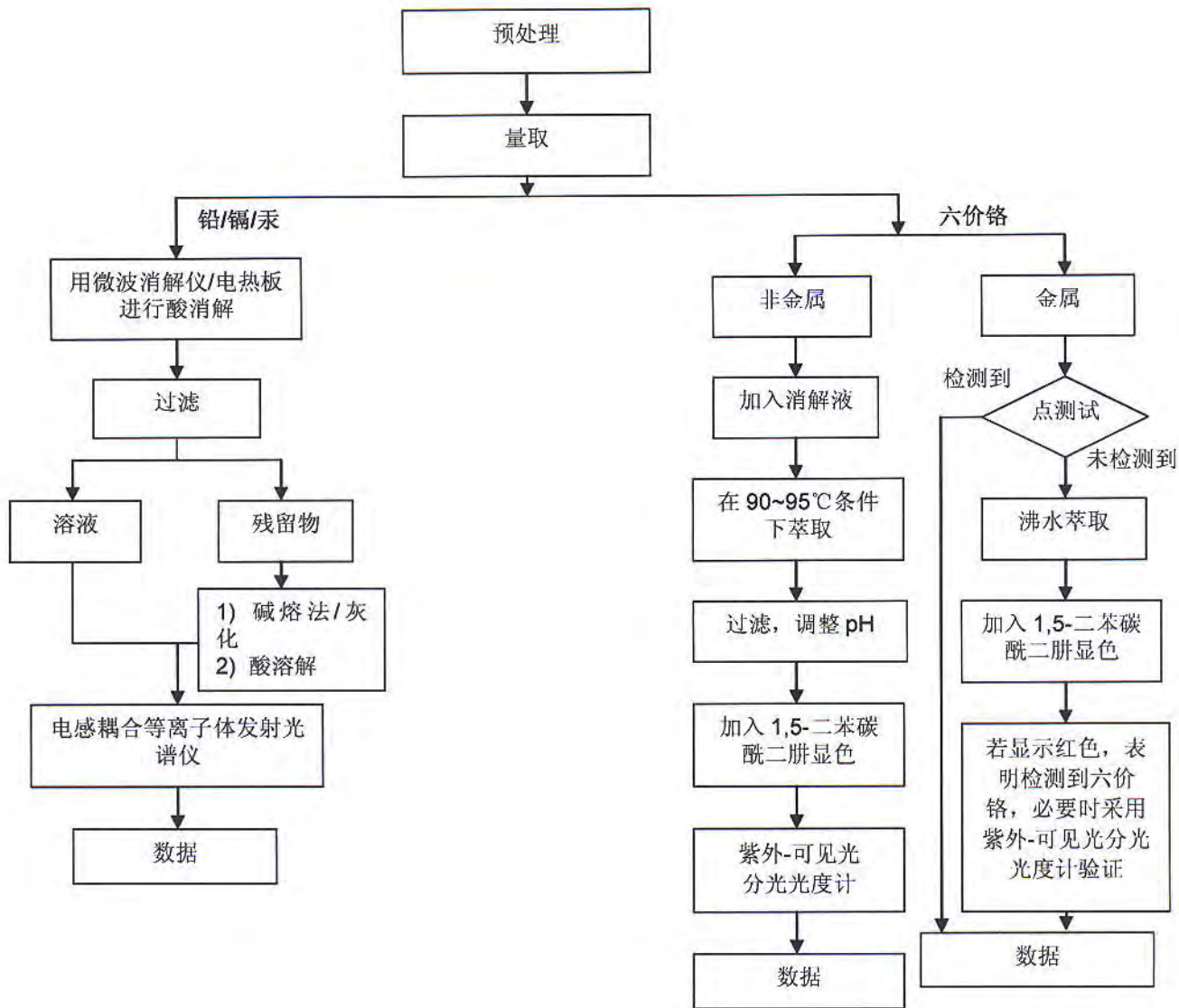
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附件

## 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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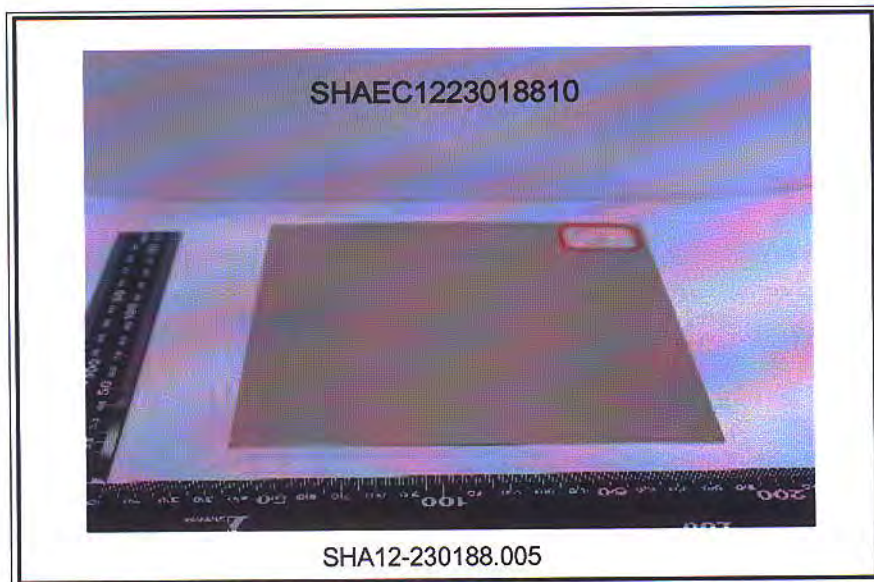
## 测试报告

No. SHAEC1223018810

日期: 2013年01月08日

第5页,共5页

样品照片:



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\*\*\* 报告完 \*\*\*

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# Test Report

Report No. RLNBE000088420001

Page 1 of 4

**Applicant** YUEQING DONGFENG FASTENERS COMPANY

**Address** NO528,SOUTH STREET,BEIBAIXIANG TOWN,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** Steel

**Sample Received Date** Jul. 2, 2012

**Testing Period** Jul. 2, 2012 to Jul. 5, 2012

**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)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
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

*Wei Miao*

Approved by

*Chen Qian*

Date

Jul. 5, 2012

Chen Qian

Approved Signatory

No. 13431686

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

# Test Report

Report No. RLNBE000088420001

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**Test Result(s)**

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium(Cd)	N.D.
Mercury(Hg)	N.D.

Tested Item(s)	Conclusion
Hexavalent Chromium(Cr(VI))	Negative

**Tested Sample/Part Description** Metal with silver-grey cover layer

**Note:** The sample 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 50cm<sup>2</sup> sample surface area used.

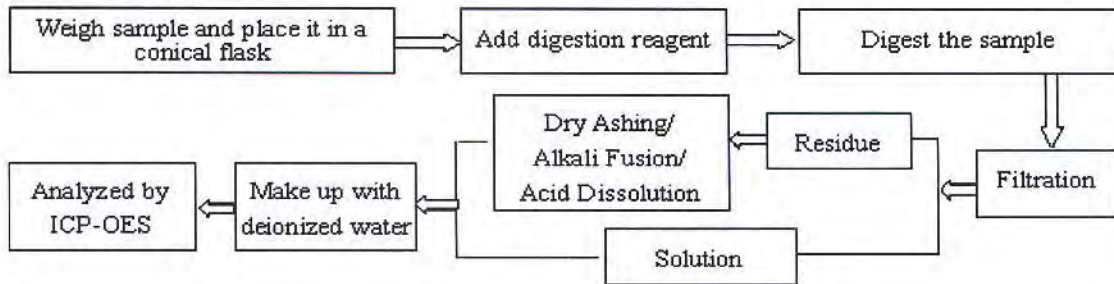
# Test Report

Report No. RLNBE000088420001

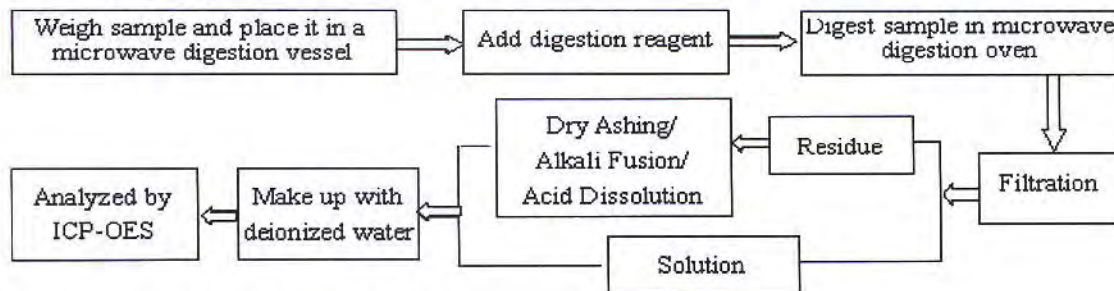
Page 3 of 4

## Test Process

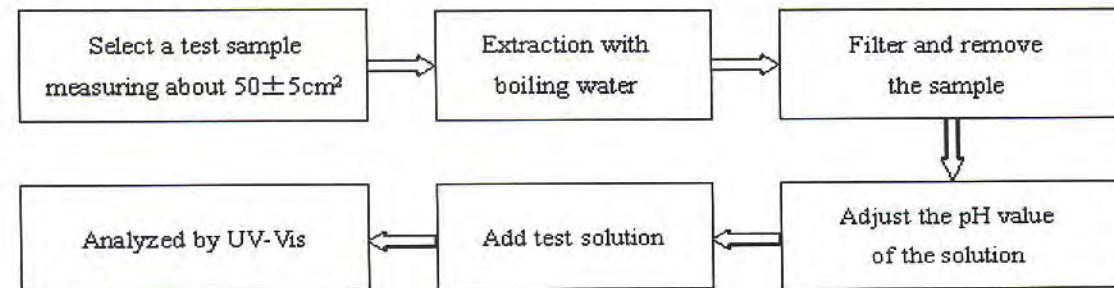
### 1. Lead(Pb), Cadmium(Cd)



### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr(VI))



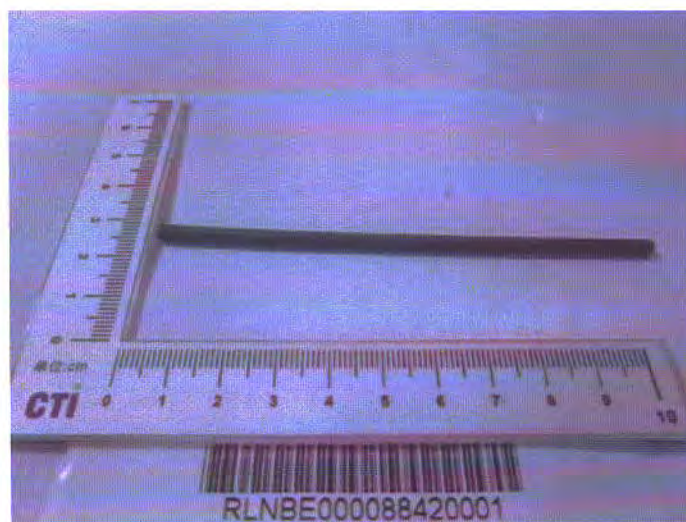


# Test Report

Report No. RLNBE000088420001

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## Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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# Test Report

Report No. RLNBE000110150001

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 SUS 304  
Part No. M4\*17 screw  
Sample Received Date Nov. 12, 2012  
Testing Period Nov. 12, 2012 to Nov. 14, 2012

**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)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/

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

## Conclusion:

Tested Sample	According to directive	Result
Submitted Sample	2011/65/EU*	Pass

\*=July 1, 2011, the EU Official Journal (OJ) released the directive 2011/65/EU which as a new version of RoHS Directive (2002/95/EC). The revised directive has entered into force on the twentieth day after its publication in the OJ.

Tested by Sha Chen Reviewed by Wei Mao  
Approved by Chen Qian Date Nov. 14, 2012  
Chen Qian  
Approved Signatory  
No. 13820104

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

# Test Report

Report No. RLNBE000110150001

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## Test Result(s)

Tested Item	Result	Directive Limit
Lead (Pb)	N.D.	1000 mg/kg
Cadmium (Cd)	N.D.	100 mg/kg
Mercury (Hg)	N.D.	1000 mg/kg
Hexavalent Chromium (Cr(VI))	Negative	1000 mg/kg

Tested Sample/Part Description Base

**Note:** The sample 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 50cm<sup>2</sup> sample surface area used.



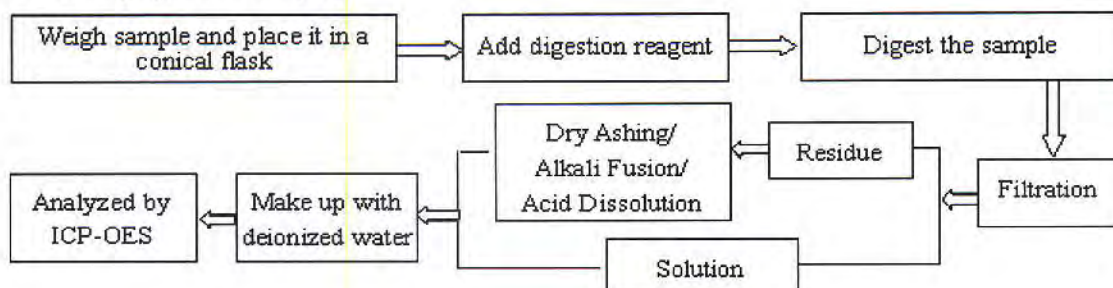
# Test Report

Report No. RLNBE000110150001

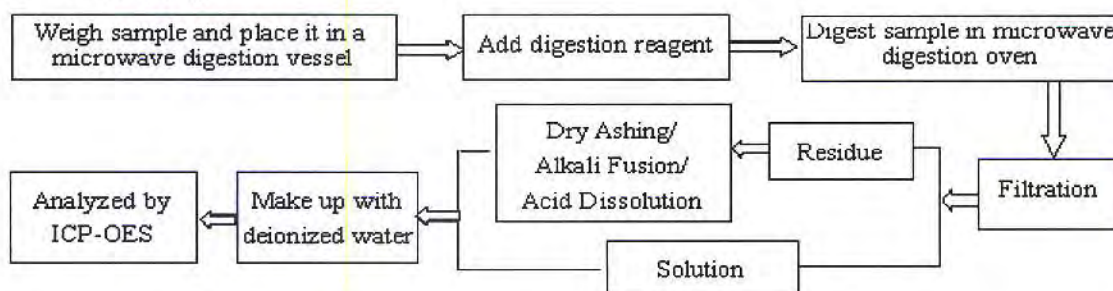
Page 3 of 4

## Test Process

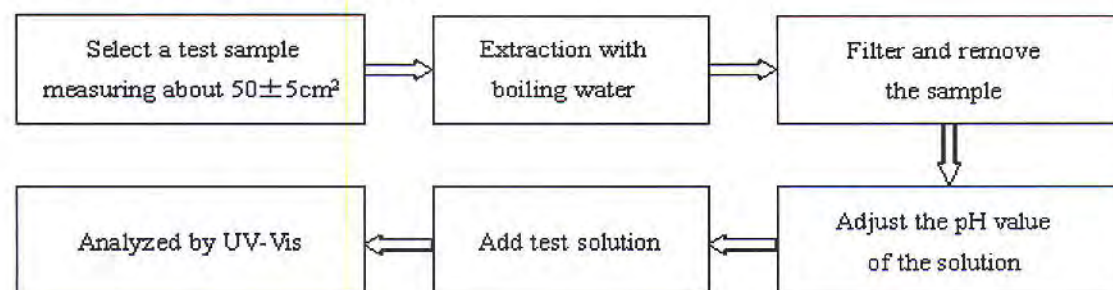
### 1. Lead(Pb), Cadmium(Cd)



### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr(VI))



## Test Report

Report No. RLNBE000110150001

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Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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# Test Report

Report No. RLNBE000090170001

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Applicant YUEQING HUIFENG ELECTROPLATE FACTORY

Address NO528,XIANGTA WEST ROAD,BEIBAIXIANG TOWN,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 Tin Plating  
Sample Received Date Jul. 12, 2012  
Testing Period Jul. 12, 2012 to Jul. 14, 2012

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)	MDL
Lead(Pb)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
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

Wei Miao

Approved by

Chen Qian

Date

Jul. 14, 2012

Chen Qian

Approved Signatory

No. 13431669

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

# Test Report

Report No. RLNBE000090170001

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## Test Result(s)

Tested Item(s)	Content
Lead(Pb)	258 mg/kg
Cadmium(Cd)	N.D.
Mercury(Hg)	N.D.
Tested Item(s)	Conclusion
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 50cm<sup>2</sup> sample surface area used.

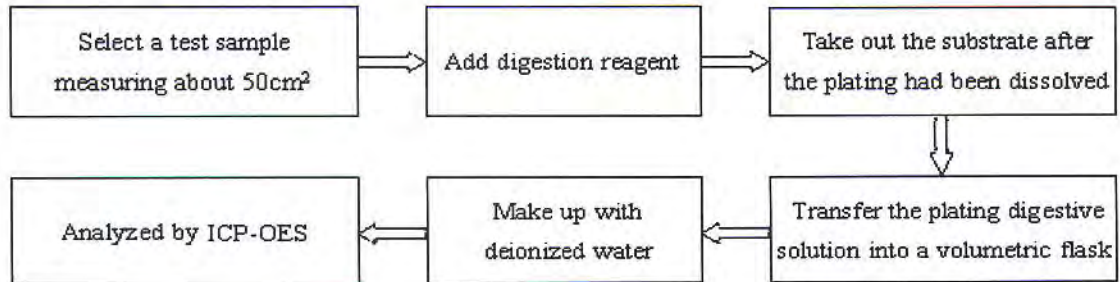
# Test Report

Report No. RLNBE000090170001

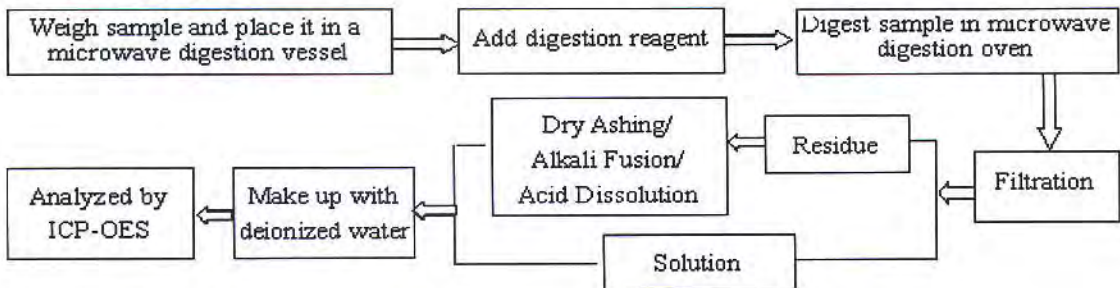
Page 3 of 4

## Test Process

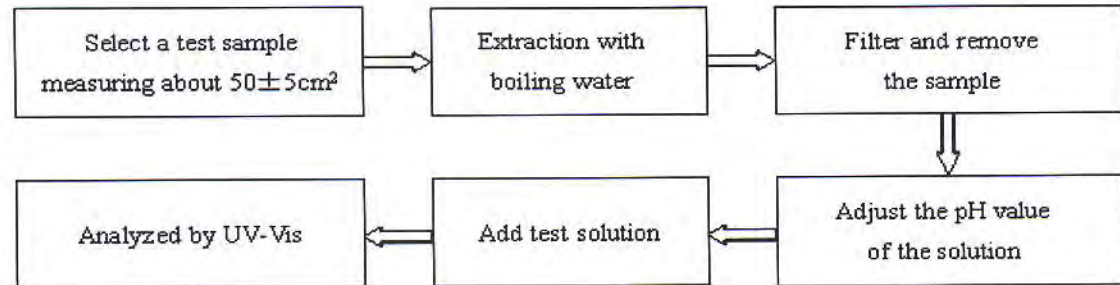
### 1. Lead(Pb), Cadmium(Cd)



### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr(VI))



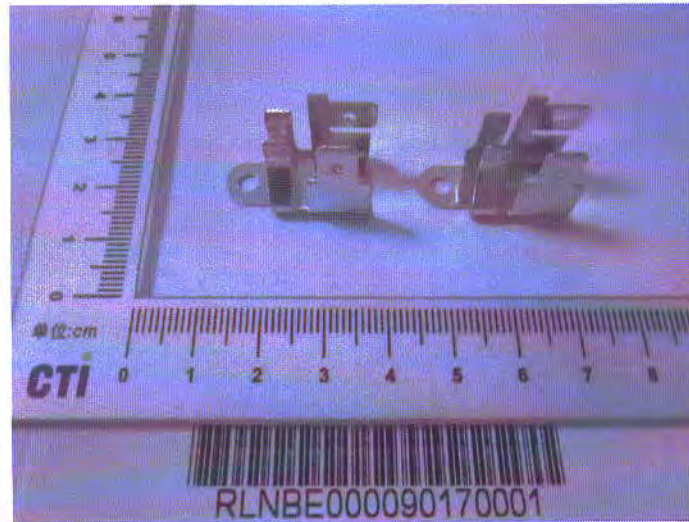


# Test Report

**Report No.** RLNBE000090170001

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## Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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# Test Report

Report No. RLNBE000088420002

Page 1 of 4

**Applicant** YUEQING DONGFENG FASTENERS COMPANY  
**Address** NO528,SOUTH STREET,BEIBAIXIANG TOWN,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** Zinc Plating  
**Sample Received Date** Jul. 2, 2012  
**Testing Period** Jul. 2, 2012 to Jul. 5, 2012

**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)	MDL
Lead(Pb)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Cadmium(Cd)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.9	ICP-OES	2 mg/kg
Mercury(Hg)	Plating layer test method (In-house method) and IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
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

*Wei Miao*

Approved by

*Chen Qian*

Date

Jul. 5, 2012

Chen Qian

Approved Signatory

No. 13431686

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

# Test Report

Report No. RLNBE000088420002

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## Test Result(s)

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium(Cd)	N.D.
Mercury(Hg)	N.D.

Tested Item(s)	Conclusion
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 50cm<sup>2</sup> sample surface area used.



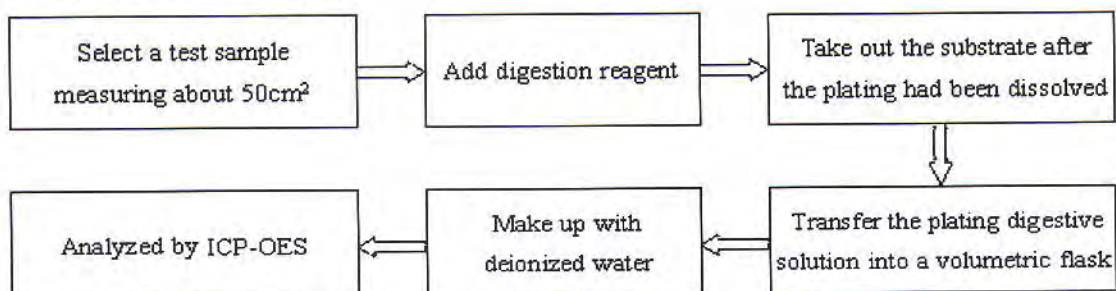
# Test Report

Report No. RLNBE000088420002

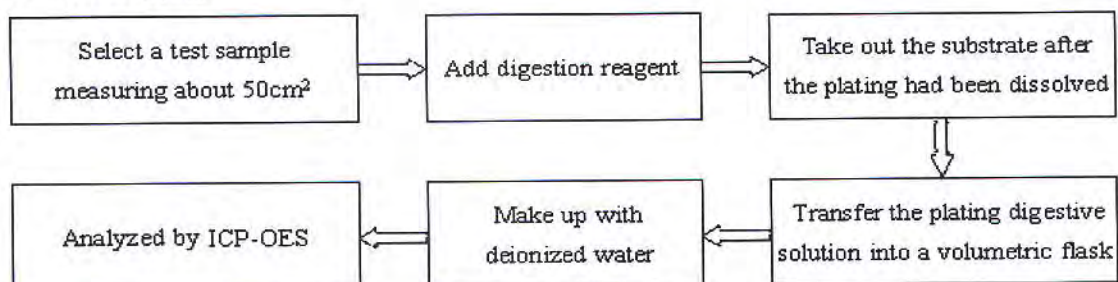
Page 3 of 4

## Test Process

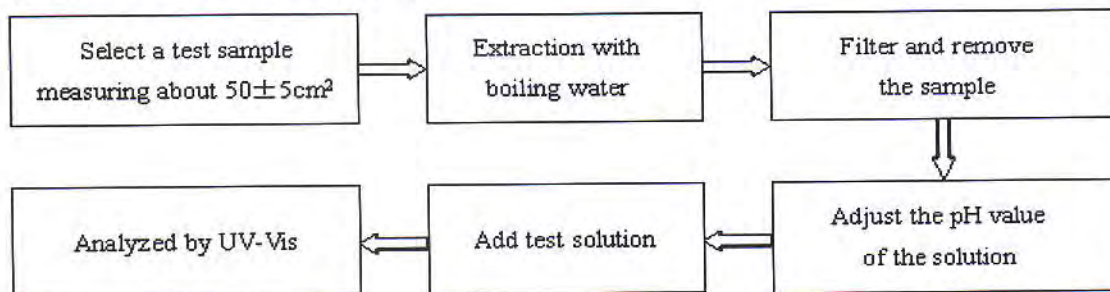
### 1. Lead(Pb), Cadmium(Cd)



### 2. Mercury(Hg)



### 3. Hexavalent Chromium(Cr(VI))



# Test Report

Report No. RLNBE000088420002

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## Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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# 检测报告

报告编号 RLSDF000207040003C

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申请单位 佛山市美嘉油墨涂料有限公司  
地 址 广东省佛山市高明区更合镇更合大道

以下测试之样品及样品信息由申请者提供并确认

样品名称 其他颜色油墨  
样品型号 请参见附页  
样品接收日期 2013.02.27  
样品检测日期 2013.02.27—2013.03.02

检测要求 根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)进行测试。

检测依据 请参见下页。

检测结果 请参见下页。

## 结论

测试样品	依据指令	结果
提交样品	2011/65/EU*	合格

\*=2011 年 7 月 1 日, 欧盟在其官方公报上正式发布了 RoHS (2002/95/EC) 的重订指令 2011/65/EU。该指令已于欧盟官方公报公布的 20 天后生效。

主 检:

冯贯叶

审 核:

王文章

批 准:

万庆红

口 期:

2013.03.02

万庆红  
技术经理

No. 11441330

深圳市华测检测技术股份有限公司顺德分公司 广东省佛山市顺德区容桂容奇大道东 8 号之二永盈大厦 9 楼

# 检测报告

报告编号 RLSDF000207040003C

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## 检测依据

测试项目	测试方法	测试仪器	方法检测限
铅(Pb)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES	2 mg/kg
镉(Cd)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES	2 mg/kg
汞(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
六价铬(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
多溴联苯(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
多溴二苯醚(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

## 检测结果

测试项目	结果	指令限值
铅(Pb)	N.D.	1000 mg/kg
镉(Cd)	N.D.	100 mg/kg
汞(Hg)	N.D.	1000 mg/kg
六价铬(Cr(VI))	N.D.	1000 mg/kg
<b>多溴联苯(PBBs)</b>		
一溴联苯	N.D.	1000 mg/kg
二溴联苯	N.D.	
三溴联苯	N.D.	
四溴联苯	N.D.	
五溴联苯	N.D.	
六溴联苯	N.D.	
七溴联苯	N.D.	
八溴联苯	N.D.	
九溴联苯	N.D.	
十溴联苯	N.D.	

# 检测报告

报告编号 RLSDF000207040003C

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## 检测结果

测试项目	结果	指令限值
<b>多溴二苯醚(PBDEs)</b>		
一溴二苯醚	N.D.	1000 mg/kg
二溴二苯醚	N.D.	
三溴二苯醚	N.D.	
四溴二苯醚	N.D.	
五溴二苯醚	N.D.	
六溴二苯醚	N.D.	
七溴二苯醚	N.D.	
八溴二苯醚	N.D.	
九溴二苯醚	N.D.	
十溴二苯醚	N.D.	

测试样品/部位描述 深蓝色液体

注释：1. 对于检测铅，汞，镉之样品已完全溶解。

2. 此测试结果是基于样品干重计算而得。

-N.D.= 未检出 (小于方法检测限)

-mg/kg=ppm =百万分之几.

备注：报告编号末尾中“C”表示此报告为中文版本.



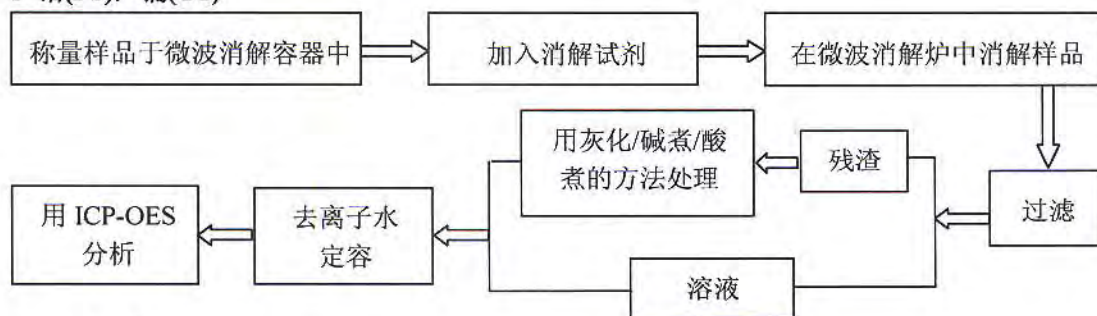
# 检测报告

报告编号 RLSDF000207040003C

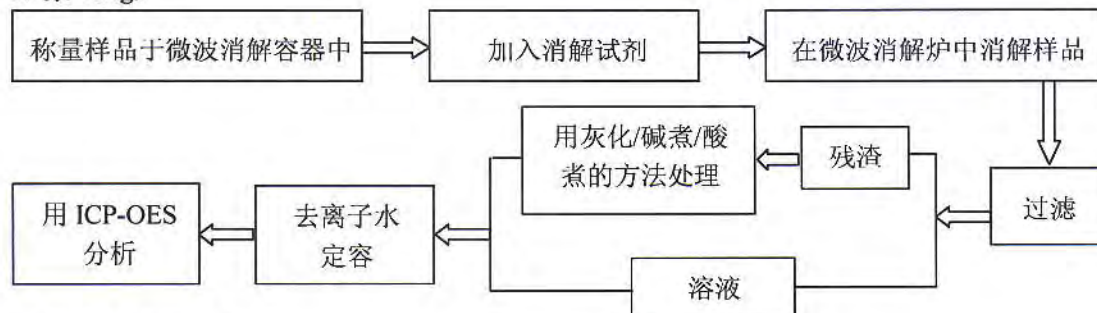
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## 检测流程

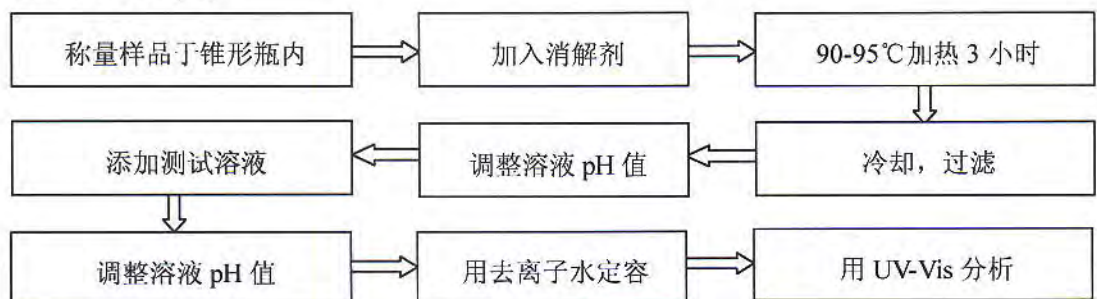
### 1 铅(Pb), 镉(Cd)



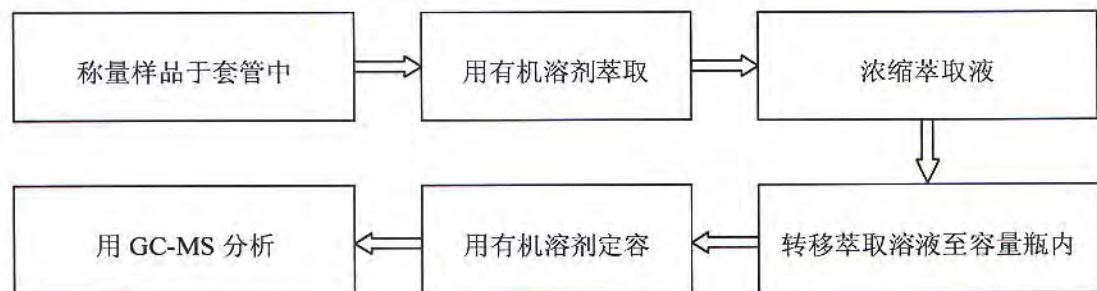
### 2. 汞 (Hg)



### 3 六价铬 (Cr(VI))



### 4. 多溴联苯 (PBBs), 多溴二苯醚 (PBDEs)

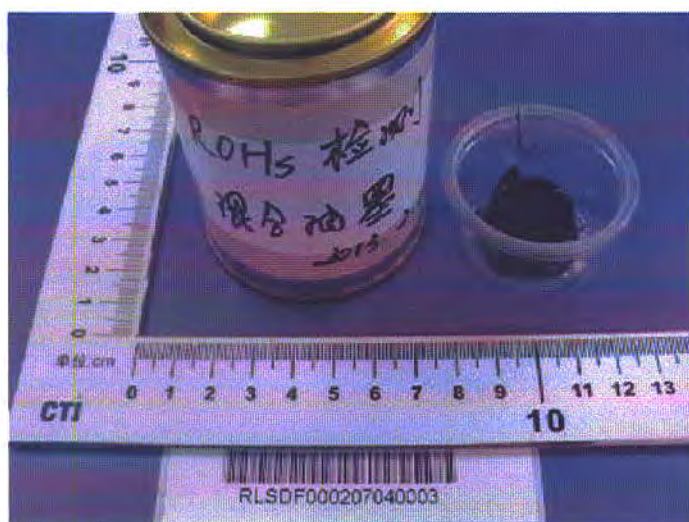


## 检测报告

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样品照片





## 检测报告

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附页: ROHS: 其他颜色:

10 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 186; T2257; T2255; T2256; T2306; T 6742; T 7148; T 7147; T 7149; T 7317; K100-B; S906; T2141; T5102; T8091;

11 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; T2369; K100-B; T6863

12 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; \*12-W100; T4506; T4507; T5110; T5726; T5727; T5728; T5729; T5730; T5731; T5732; T5814; T6604; T7134; T7135; T7309; T9655; T10541; T10542; T10543; T10544; T10992;

14 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

20 系列: W100-3; K100-3; R100-3; M100-3; Q100-3; B100-3; V100-3; G100-3; 195; TS206; TS302; TS403; W300-A; 195; K100-3;

21 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

22 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; C191

25 系列: W100; W100-3; R100; R100/5; M100; Q100; V100; E100; B100; G100;

K100; K100-3; 195; 195-A/5; 895-A/ 胶罐; K100-A/5; T 5682; K500; T9135/5; T9137/5; T9503/5; T9537B; W100-A/5; \*25-195/胶罐; T10558; T10558/5; T9135/5; T9137/5; T9503/5; T9537B

26 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; K100-3/5; 195; 195/5; M900; W100-3/5; T9135; T9136; T9137;

27 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

28\* (28) 系列: W100; W100-B; W100-3; R100; R100-B; M100; Q100; V100; E100; B100; B100-B; G100; G100-B; K100; K100-3; K100-3-B; 195; W100-B-3; K100-B-3; T9771; 195-B; 195-B/5; K100-3-B; W100-3-B; G0590; V100-B; C191/0.1; K100-B; UV000; UV000/5; W100/5; T2831; T9221;

29 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; T2168

31 (PCT) (-B) 系列: W100; W100-3; R100; M100; Q100; B100; B500; G100; G100-B; V100; V100-B; K100; K500; K555; 195; 777; 895; T8877; T8878; T8879; T8880; T8886; T8390; T8391; T8395; T2369; T9486; T9835; T8797; T8798; T2168 (德怡); T2141 (德怡); M902; M903; S906; TH206; TH302; TH403;

32 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

38 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

43 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; T2791; T2985; T5885; T6124; T7380; B200; C191; K200; M200; Y200;

46 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; T10539; T7943; T7944;

47 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

48 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; C191;

49 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; 195/5; C191; T8872; T9220; 895; C191/0.25; P2134-1; P2174; P2291; P2292; P2331; P2332; P2363; P2371; P2372; P2373; P2374; P237;

P2376; P2381; P2382; P2383; P2377; P2400; P2401; P2402; P2404; P2413; P2341; T9086; T9087; T9088;



## 检测报告

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T9089;T10537;T9418;T9418/5

51 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

54 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;C191;

56 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;  
T4573;T10087;

57 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

59 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

66 系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195;

8116 系列: P35; P42; P50; P52; P53; P57; P59; P63; P75; P83; P83-3; P195; P198;T3189;

7118 系列: P35; P42; P50; P52; P53; P57; P59; P63; P75; P83; P83-3; P195; P198;

80 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095; 1098;

70 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095; 1098;

SS10 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095; 1098;

SS20 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083;  
1083-3; 1075-3; 1095; 1098;TS206;TS302;TS403;W300-A;195;K100-3;

SS70 系列: 141;112;057;003;791;385;037;391;083;113;911;611;810;

SS80 系列: 141;112;057;003;791;385;037;391;083;113;911;611;810;

EG 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

EM 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

EA 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

EB 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

NY 系列: 1035;1042;1046;1048;1050;1052;1053;1057;1059;1063;1075;1083;1083-3; 1083-3/20;  
1075-3; 1095;1091;1035-6;1048-6;1053-6;1075-6;1083-6; 1083-6/20;8004; 8006;

NYG 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

PS 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

PSG 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

PE 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;

PEG 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3;  
1095;1091



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PP 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095;

PPG 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095;

PPE 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095;

PET\*系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095;

PCT(-B)系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095; 295;

MT 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095; 1091

MTS 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095;

GS 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095; GS-000;

GV 系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095; 1091

ACT 贴花系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095; ACT-700; ACT-777; 008; R530; G320; B460; Q580

AET 系列: W100; F880;

VK3 系列: P75-1; P83-1; 195

VK7 贴花系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095; G320(南粤); P26-8(南粤); P35-8(南粤); P42-8(南粤); P46-8(南粤); P48-8(南粤); P50-8(南粤); P53-8(南粤); P59-8(南粤); P63-8(南粤); P75-8(南粤); P83-8(南粤); R538(南粤);

SG 贴花: W100-3; K100; R100; M100; V100; B100; G100; E100; S125; B460; G320; P208; Q580; R530; UV 油墨: R800; Q800; V800; B800; G800; K800; W800; UV-TC;

SSPPNK 系列: 611; 003; 057; 112; 113; 037; 391; 385; 791; 083; 911; 611S; SSPPNK-00; PY2033; T5250;

SS16 系列: 611; 003; 057; 112; 113; 037; 391; 385; 791; 083; 911; SS16-000;

911 系列: B100; W100; K100; V100; E100; G100; R100; Q100; M100; W100(恒晖); K100(恒晖); 快干 2000#(恒晖); V100(恒晖); -B100(恒晖); R100(恒晖); E100(恒晖); G100(恒晖);

60 触摸屏油墨系列: W100 W100-3, R100, M100, Q100, V100, E100, B100, G100, K100, K100-3, 195

TH 系列: W100, W100-3, R100, M100, Q100, V100, E100, B100, G100, K100, K100-3, 195

52 系列: P83, P88, P35, P42, P33, P75, M903, M905, TR01, TR02, TR03, P46, P53, P50, P57, P48, P63, M901

53 系列: P83, P88, P35, P42, P33, P75, M903, M905, TR01, TR02, TR03, P46, P53, P50, P57, P48, P63, M901

其他: T4573; 99-956B; 395; 300Y; 300B; 300R; 300K; 300P; 300M; M901; M902; M903; M905; M906; T710; T720; T730; T740; T750; T760; T770; T780; F840; F850; F860; F870; F880;



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SS777; TUV; A4163; G0600;S906-S;T7319;P2425;T7812;T7813;T9939;

助剂及溶剂: STUR-100B;STUR-100B/0.1;PPS-01;PPS-01/0.5;S907;S909;2000#;2000#/3;2200#;  
2200#/32600#;3000#;3000#/15;3000 (万家乐);5000#/3;840#;721#; 7000#; 7200#; 7600#

5000#;5500#;8000#;888#;777#;783#;GP1006;GP-1006/1;GP1007;GP1008;783#;S407#; S408#;719#;

718#; 718#/15; S408#;S482#;842#;3000#;861#;861#/3;862#;UR-100B; GRU-200B; 844#/3; ;862#/3;844#

\*\*\* 报告结束 \*\*\*

检测报告无批准人签字及“报告专用章”无效,本报告检测结果仅对受测样品负责。未经 CTI 书面同意,不得部分复制本报告。