



ICP Test Report Certification Packet

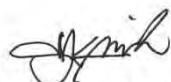
Company name: Littelfuse, Inc.

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: March 7, 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: 
KRISTEEN BACILA

<Global EHS Manager >

(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

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
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)	12-17
4	100069	Fuse Clip (Cu Alloy)	12-17
5	902-122	Self Tapping Phillips screw (Steel)	18-21
6	902-119	Type B Self Tapping Screw (Steel)	18-21
7	903-117	Square Nut (Steel)	18-21
8	902-139	Binding Head Screw (Steel)	18-21
9	902-140	Pressure Plate Screw (Steel)	18-21
10	N/A	Printing Ink - ROHS	22-31
11	929-023	Guide Spring (304 Steel)	32-35
12	N/A	Tin Plating of Cu Alloy	36-39
13	N/A	Zinc Plating of 304 Steel	40-43



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

Test Conducted :

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

Authorized By:
On Behalf Of Intertek Testing Services
Taiwan Limited



K. Y. Liang
Director

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except in full, without the written
approval of the laboratory.

Number : TWNC00268062

Test Conducted

(I) Test Result Summary :

Test Item	Result (ppm)
	Black Plastic
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	22
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)	133
Chlorine (Cl)	ND
Bromine (Br)	34674
Iodine (I)	ND
Phthalates	
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>
Others	
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 ⁶⁺) 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 (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

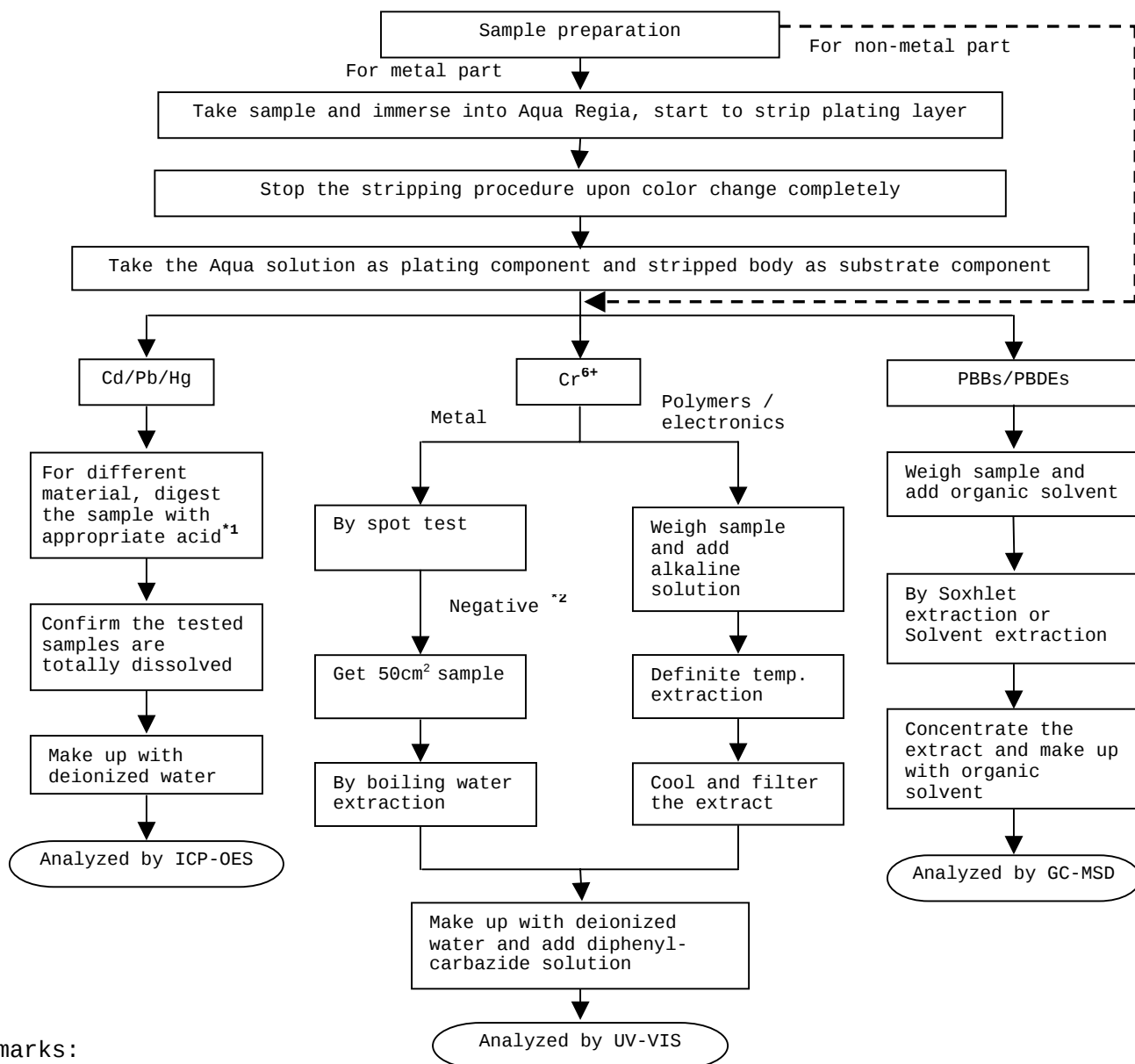
Remark: Reporting limit = Quantitation limit of analyte in sample

Test Conducted

(IV) Measurement Flowchart:

Test for Cd/Pb/Hg/Chromium (VI)/PBBS/PBDES Contents

Reference Standard: IEC 62321 edition 1.0:2008



Remarks:

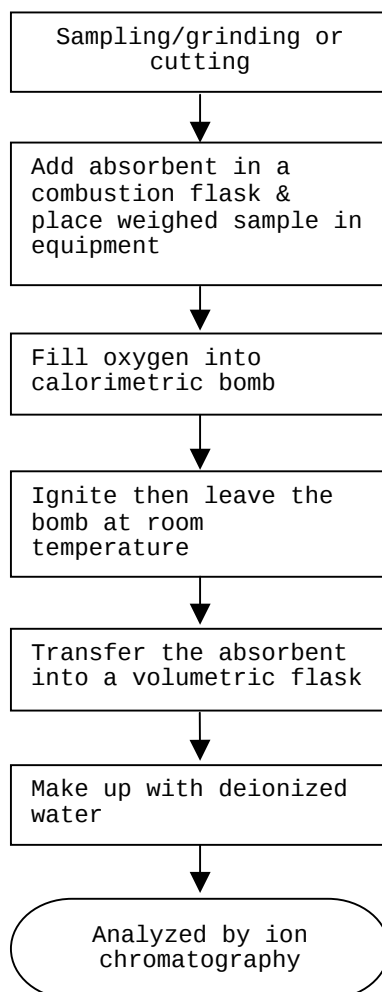
*1: List of Appropriate Acid :

Material	Acid Added for Digestion
Polymers	HNO 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.

Test Conducted
(IV) Measurement Flowchart:

Test for Halogen Content
Reference Standard : EN 14582

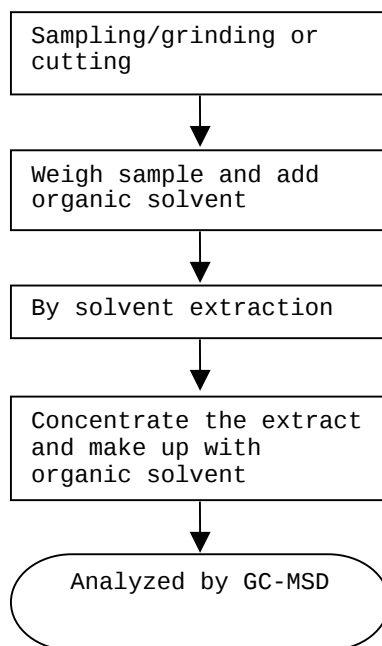


Test Conducted

(IV) Measurement Flowchart:

Test For Phthalates Contents

Reference Method: EN 14372: 2004

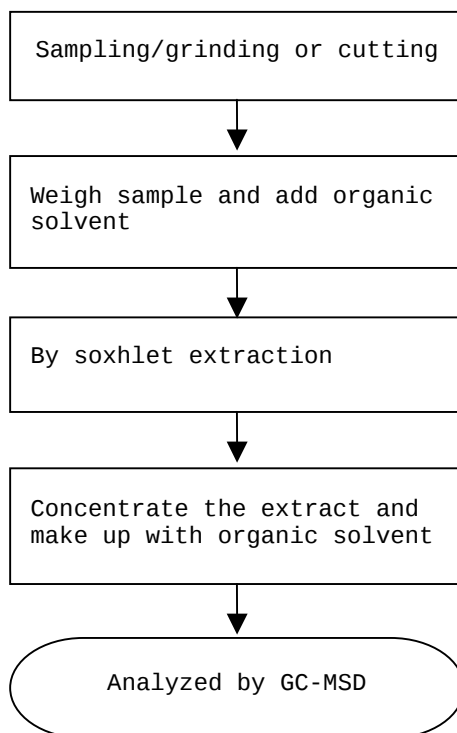


Test Conducted

(IV) Measurement Flowchart:

Test For Hexabromocyclododecane (HBCDD)

Reference Standard : USEPA 3540C



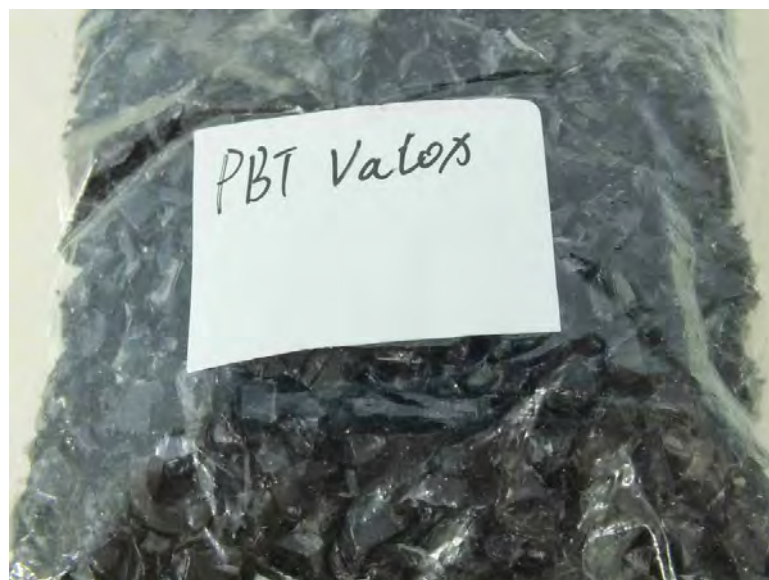
End of Report

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Test Conducted

Number : TWNC00268062

Photo





Test Report

Number : TWNC00268064

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 : Copper

Part Number : T3

Date Sample Received : Jul 20, 2012

Date Test Started : Jul 21, 2012

Test Conducted :

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

Authorized By:
On Behalf Of Intertek Testing Services
Taiwan Limited



K. Y. Liang
Director

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except in full, without the written
approval of the laboratory.

Number : TWNC00268064

Test Conducted

(I) Test Result Summary :

<u>Test Item</u>	<u>Result (ppm)</u>
	<u>Coppery Metal</u>
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	32
Mercury (Hg) content	ND
Chromium VI (Cr ⁶⁺) content (mg/kg with 50cm ²)	Negative (< 0.02)

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
 ND = Not detected
 < = Less than
 mg/kg with 50cm² = milligram per kilogram with 50 square centimetre
 Negative = A negative test result indicated positive observation was not found at the time of Test.

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 ⁶⁺) Content	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 (Cr ⁶⁺) content	With reference to IEC 62321 edition 1.0:2008 in annex B, by boiling water extraction and determined by UV-Vis Spectrophotometer.	0.02 mg/kg with 50cm ²

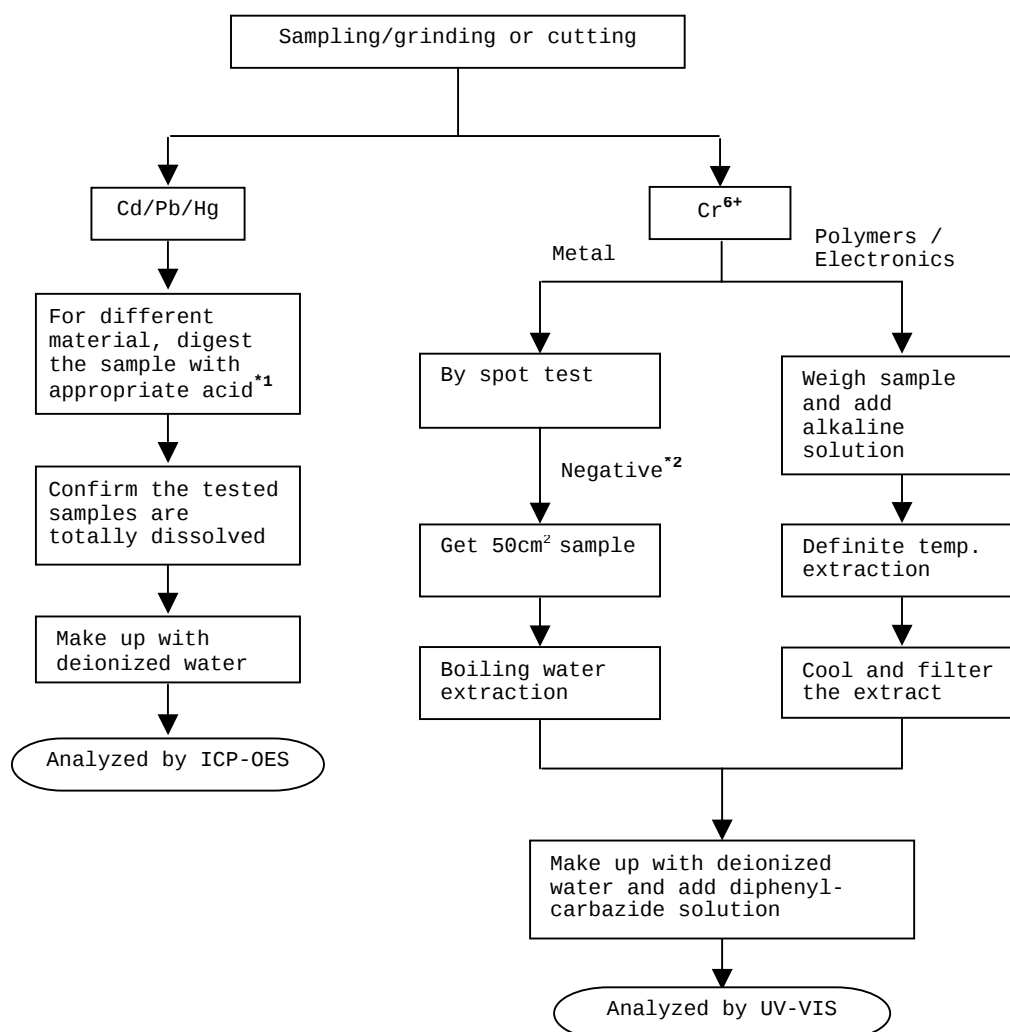
Remark: Reporting limit = Quantitation limit of analyte in sample

Test Conducted

(IV) Measurement Flowchart:

Test For Cd/Pb/Hg/Chromium (VI)

Reference Standard : IEC 62321 edition 1.0:2008





Number : TWNC00268064

Test Conducted

Remarks:

*1: List Of Appropriate Acid :

<u>Material</u>	<u>Acid Added For Digestion</u>
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.

End of Report

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Number : TWNC00268064

Test Conducted

Photo



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 50cm² sample surface area used.

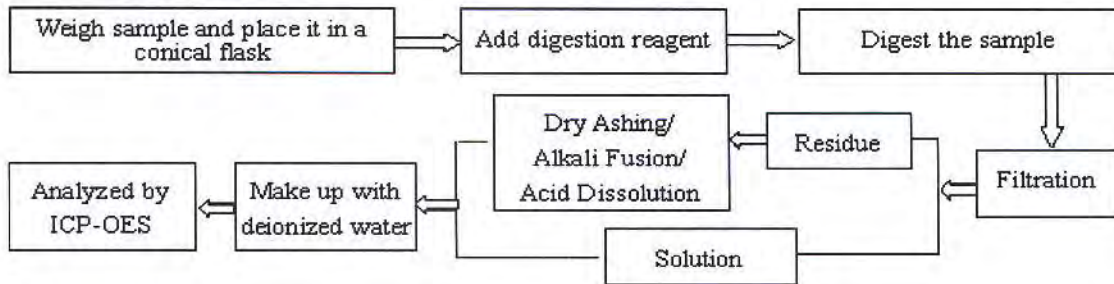
Test Report

Report No. RLNBE000088420001

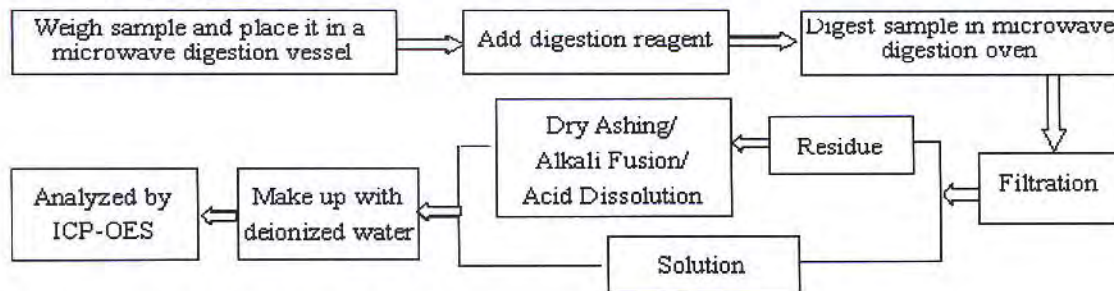
Page 3 of 4

Test Process

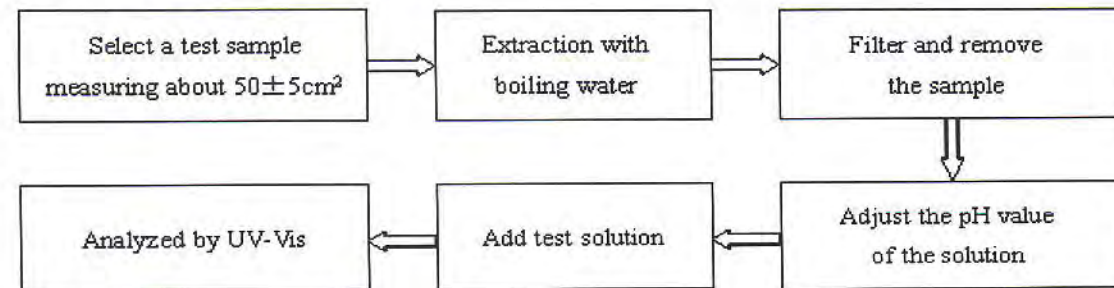
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

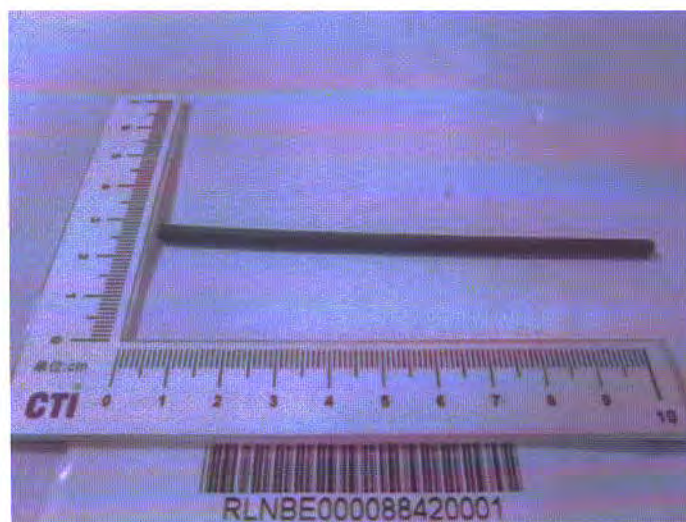


Test Report

Report No. RLNBE000088420001

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Photo(s) of the sample(s)



*** End of report ***

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

Report No.:RLSD1103151026401014

Page 1 of 7

Applicant :FOSHAN MEGA INK AND COATING CO., LTD.

Address :GENGHE ROAD, GENGHE TOWN, GAOMING DISTRICT, FOSHAN CITY,
GUANGDONG PROVINCE, CHINA

Report on the submitted sample(s) said to be:

Sample Name :丝网油墨混合物
Sample Description : liquid
Sample Received Date :Mar.15, 2011
Testing Period :Mar.15, 2011 to Mar.15, 2011

Test Requested :As specified by client, to determine the Lead(Pb), Cadmium(Cd),
Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated biphenyl(PBBs)
and Polybrominateddiphenylether(PBDEs) contents in the submitted sample.

Test Method:

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead (Pb)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES	2 mg/kg
Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.10	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 C	UV-Vis	2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

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

Tested by 
Approved by 


Inspected by Wang Wenjun

Date Mar.15, 2011

No.34238287

Test Report

Report No.:RLSD1103151026401014

Page 2 of 7

Test Result(s):

Tested Item(s)	Content
Lead (Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury (Hg)	N.D.
Hexavalent Chromium (Cr(VI))	N.D.
Polybrominated Biphenyls(PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.
Polybrominated Diphenyl Ethers(PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million

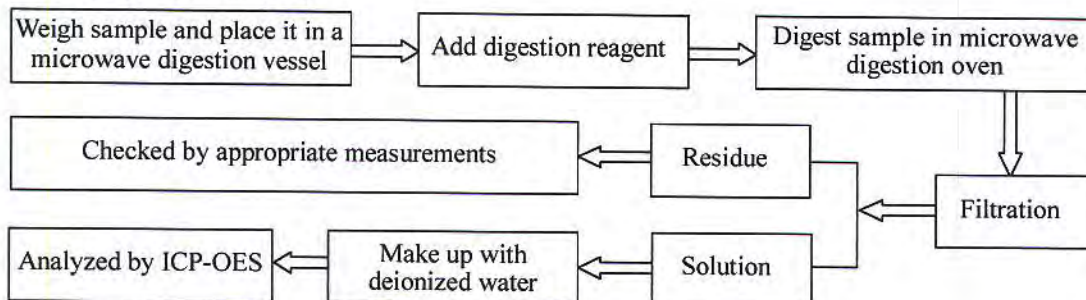
Test Report

Report No.:RLSD1103151026401014

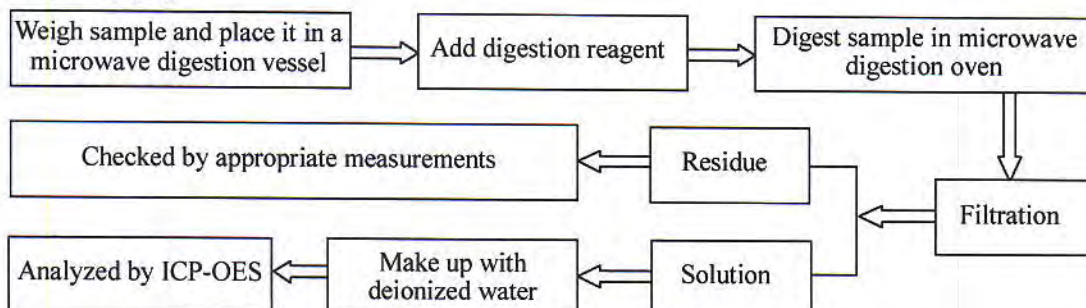
Page 3 of 7

Test Process:

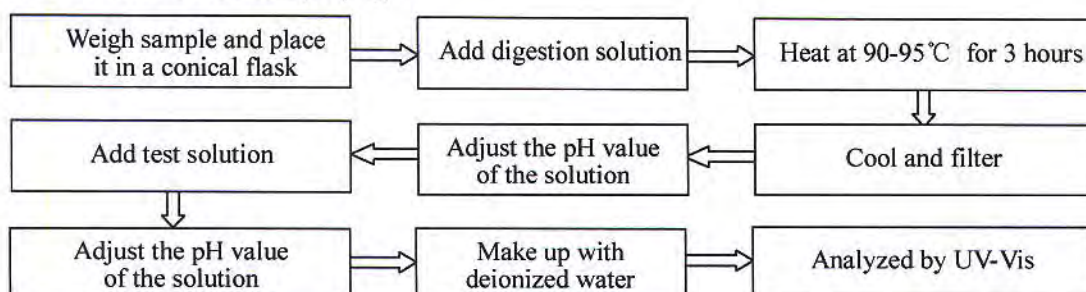
1. Lead(Pb),Cadmium(Cd)



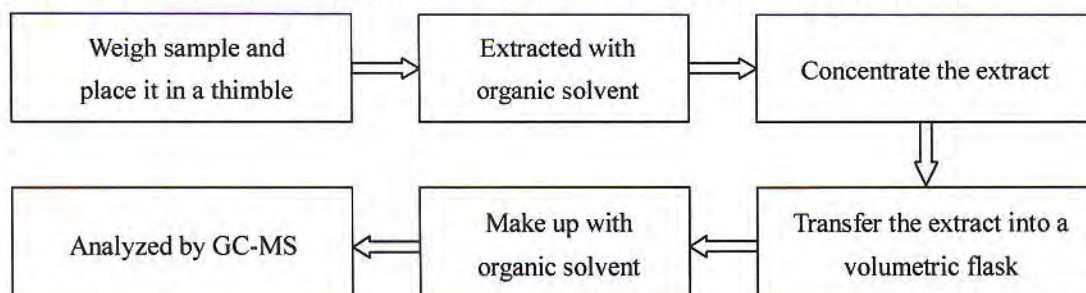
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



4. Polybrominated biphenyl(PBBs) and Polybrominateddiphenylether(PBDEs)



Test Report

Report No.:RLSD1103151026401014

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Photo(s) of the sample(s)



Test Report

Report No.:RLSD1103151026401014

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Attached page:

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;

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

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

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

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; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; T 5682; K500;

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

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

28*系列: W100; W100-3; R100; M100; Q100; V100; E100; B100; G100; K100; K100-3; 195; W100-B-3; K100-B-3; T9771;

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

31(PCT)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)

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;

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

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; C191; T8872; T9220;

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;

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;

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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;

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; 1075-3; 1095; 1091;

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

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

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;

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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;

VK7 贴花系列: 1035; 1042; 1046; 1048; 1050; 1052; 1053; 1057; 1059; 1063; 1075; 1083; 1083-3; 1075-3; 1095;

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; T3974; T5250;

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

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

其他: 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; SS777; TUVc;

助剂及溶剂: PPS-01; S907; S909; 2000#; 2200#; 2600#; 3000#; 3000# (万家乐); 840#; 721#; 7000#; 7200#; 7600#; 5000#; 5500#; 8000#; 888#; 777#; 783#; GP1006; GP1007; GP1008; 783#; S407#; S408#; 719#; 718#; S408#; S482#; 842#; 3000#; 861#; 862#; UR-100B; GRU-200B;

*** End of report ***

This report is considered invalidated without the Special Seal for Inspection of the CTI. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.

Floor 9, Yongying Building, NO. 8 Rongqi Boulevard East, Ronggui, Shunde, Foshan

Test Report

Report No. RLNBD000044550001

Page 1 of 3

Applicant WENZHOU JANDA ELECTRONIC CO.,LTD

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

Report on the submitted sample(s) said to be

Sample Name Ink
Sample Description White ink
Part No. PEG 1083
Color white
Sample Received Date Aug. 22, 2011
Testing Period Aug. 22, 2011 to Aug. 25, 2011

Test Requested As specified by client, to determine the Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I) content in the submitted sample.

Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Fluorine(F)	Refer to BS EN 14582:2007	IC	10 mg/kg
Chlorine(Cl)	Refer to BS EN 14582:2007	IC	10 mg/kg
Bromine(Br)	Refer to BS EN 14582:2007	IC	10 mg/kg
Iodine(I)	Refer to BS EN 14582:2007	IC	10 mg/kg

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

Tested by



Inspected by

Approved by

Technical Manager

Date

Aug. 25, 2011

No. 13431882

Test Report

Report No. RLNBD000044550001

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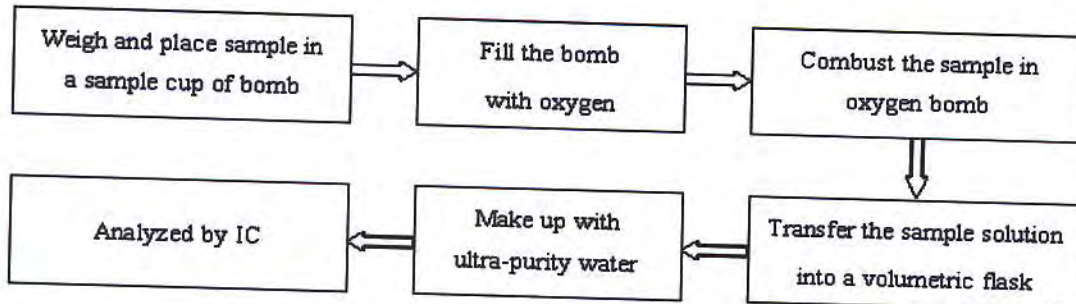
Test Result(s)

Tested Item(s)	Content
Halogen(s)	
Fluorine (F)	N.D.
Chlorine(Cl)	204 mg/kg
Bromine(Br)	N.D.
Iodine(I)	N.D.

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

Test Process

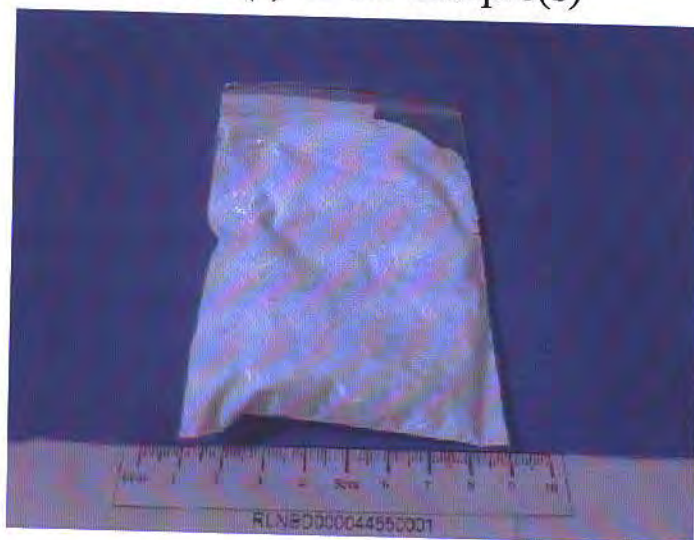


Test Report

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Photo(s) of the sample(s)



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A Building 7 and 8F, No.750, Chuangyuan Road, High-tech zone, Ningbo, Zhejiang, China

Test Report

Report No. RLNBE000088430001

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Applicant WENZHOU JANDA ELECTRONIC CO.,LTD

Address NO2,WANGLIN INDUSTRY ZONE,BEIBAIXIANG TOWN,YUEQING CITY.

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

Sample Name 304 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. 13431563

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

Test Report

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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 Silver-grey metal

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 50cm² sample surface area used.

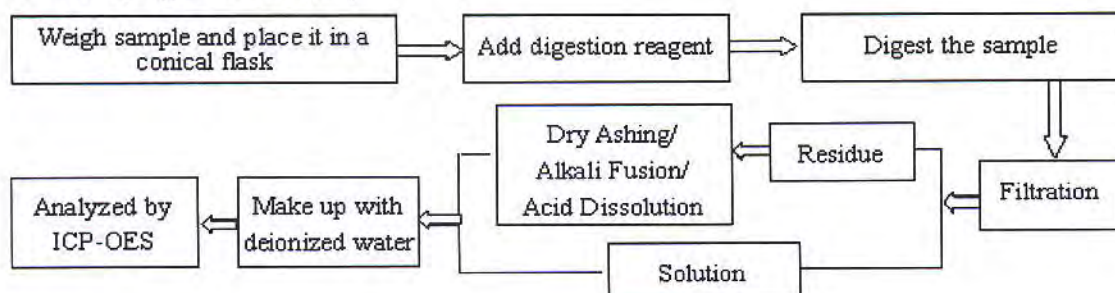
Test Report

Report No. RLNBE000088430001

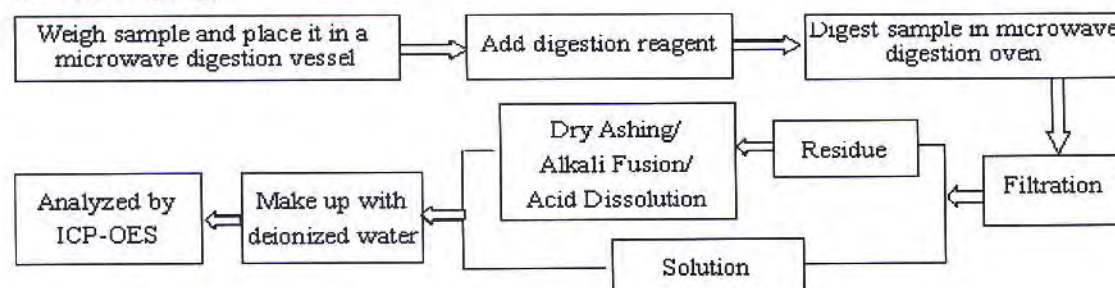
Page 3 of 4

Test Process

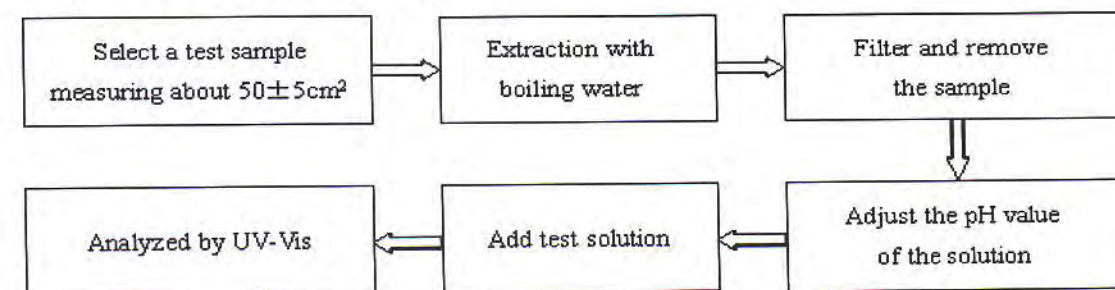
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

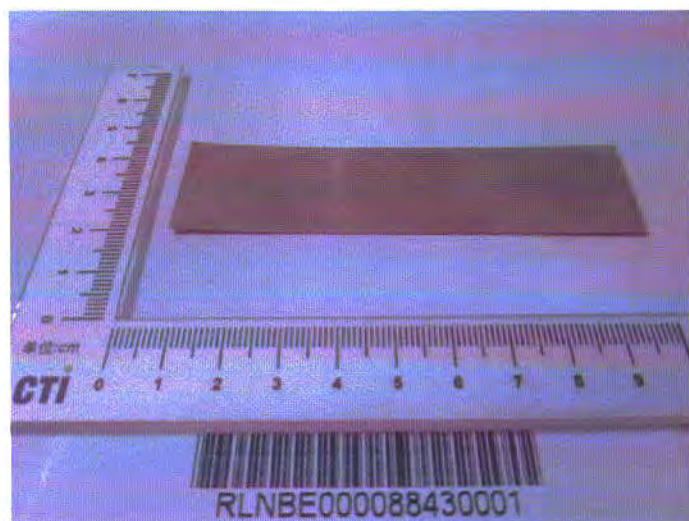


Test Report

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Photo(s) of the sample(s)



*** End of report ***

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Test Report

Report No. RLNBE000088420002

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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

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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 50cm² sample surface area used.

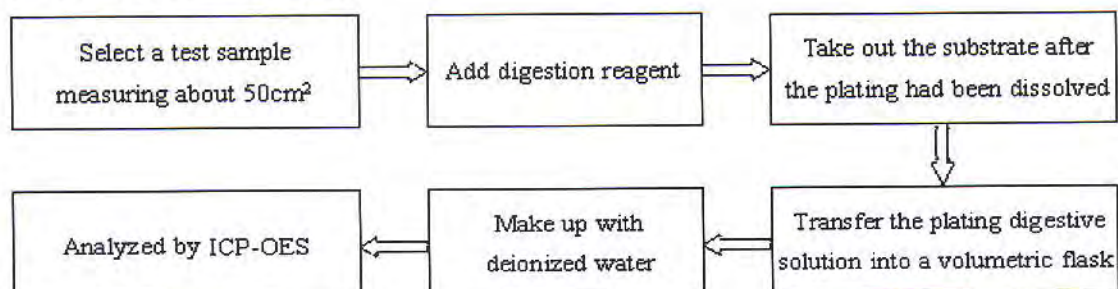
Test Report

Report No. RLNBE000088420002

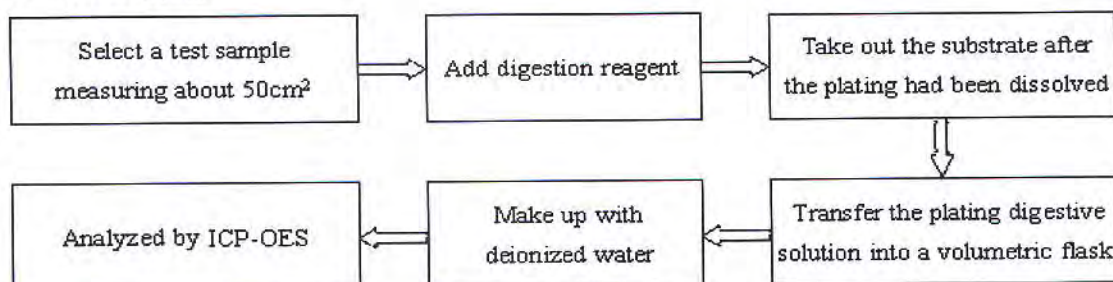
Page 3 of 4

Test Process

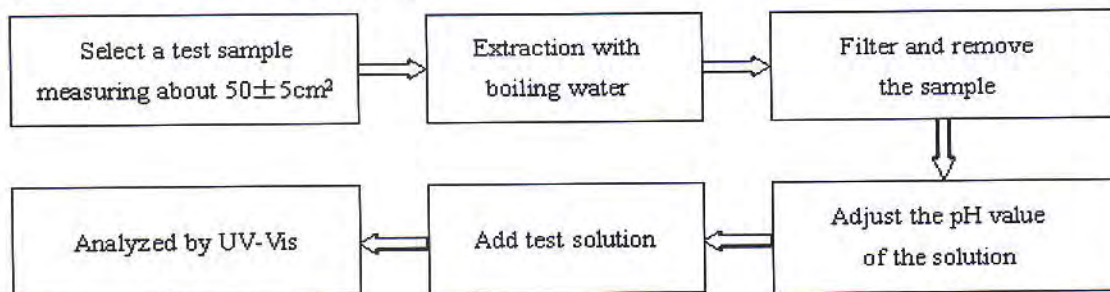
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



Test Report

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Photo(s) of the sample(s)



*** End of report ***

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Test Report

Report No. RLNBE000090170001

Page 1 of 4

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,Zhejiang,China

Test Report

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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 50cm² sample surface area used.

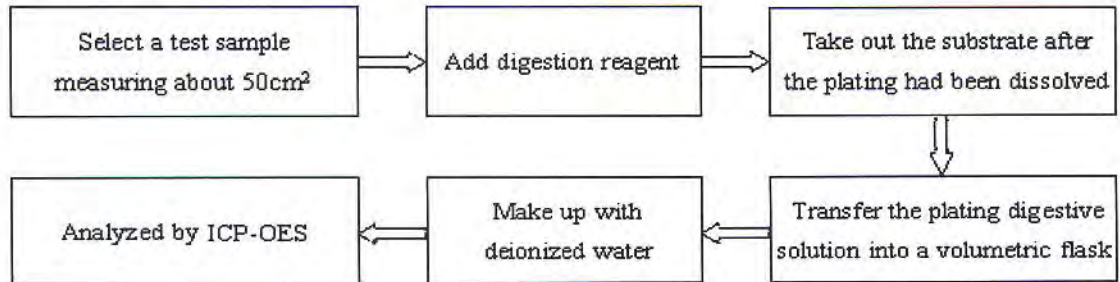
Test Report

Report No. RLNBE000090170001

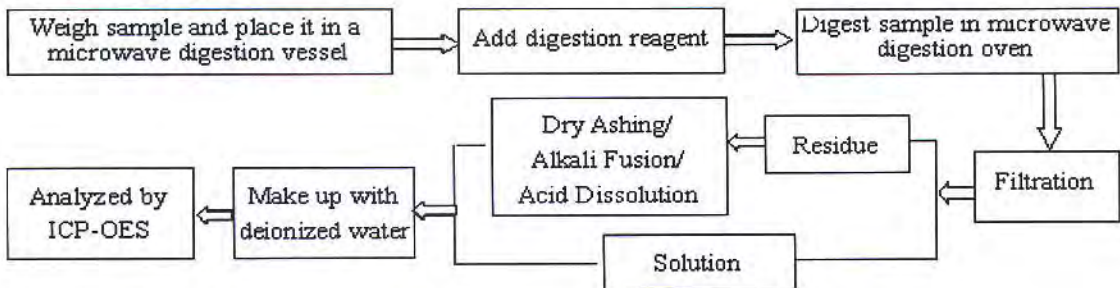
Page 3 of 4

Test Process

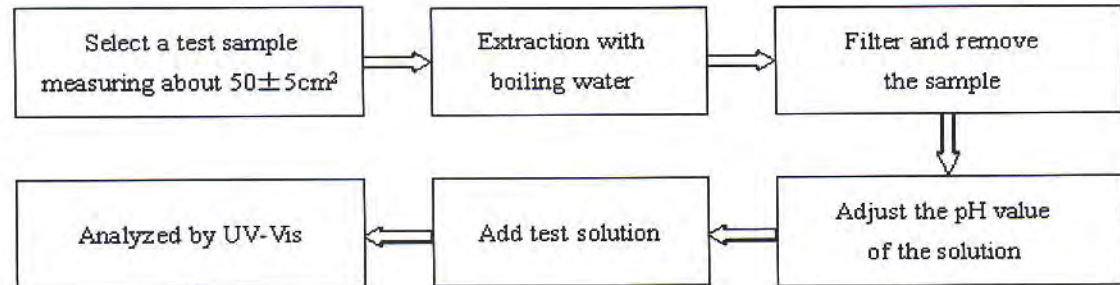
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))

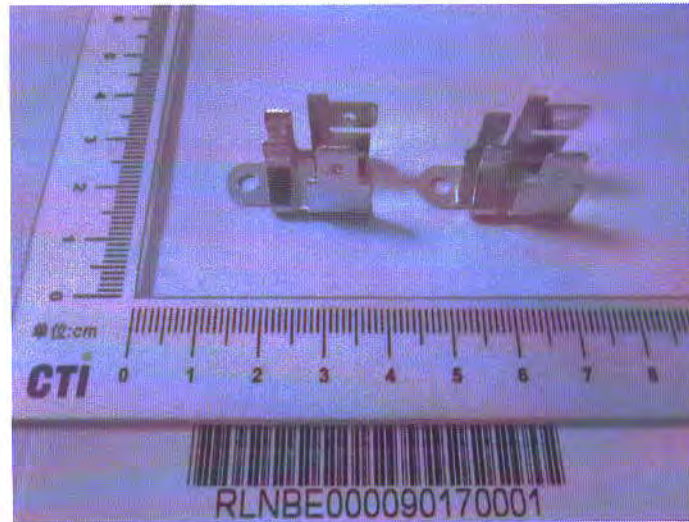


Test Report

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Photo(s) of the sample(s)



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