

Test Report

No. SH9069482/CHEM

Date: Apr. 21, 2009

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JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO.,LTD.
NO.275 BINJIANG RD., JIANGYIN, JIANGSU CHINA

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

Sample Name : TO-92 PIN LEAD PART (INCLUDE TO-92/92S/92L/92MOD/94)
SGS Ref No. : 11762521-17
Part No. : TO-92 (INCLUDE TO-92/92S/92L/92MOD/94)
Main substance : SILVERY METAL PART

Sample Receiving Date : Apr.17, 2009
Testing Period : Apr.17 – 21, 2009

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
(2) To determine the PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid) content of the submitted samples.

Test Method : (1) With reference to IEC 62321:2008
(1-1) Determination of Cadmium by ICP and AAS.
(1-2) Determination of Lead by ICP and AAS.
(1-3) Determination of Mercury by ICP.
(1-4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method.
(2) With reference to EPA 3550C: 2007.
Analysis was performed by High Performance Liquid Chromatograph-Mass Spectrometer (HPLC-MS).

Test Results : Please refer to next pages

Conclusion : (1) Based on the performed tests on submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

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Test results by chemical method

(1) Cadmium, Lead, Mercury, Hexavalent Chromium Content(Unit: mg/kg)

| Test Item(s): | Method (refer to) | 1 | MDL | RoHS Limit |
|---|----------------------|----------|-----|---------------|
| Cadmium(Cd) | (1-1) | ND | 2 | 100 |
| Lead (Pb) | (1-2) | 9 | 2 | 1000 |
| Mercury (Hg) | (1-3) | ND | 2 | 1000 |
| Hexavalent Chromium (CrVI) by spot test / boiling-water extraction | (1-4) | Negative | # | - |

(2) PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid) content (Unit: mg/kg)

| Test Items | Test method (refer to) | 1 | MDL |
|---|---------------------------|----|-----|
| Perfluorooctane Sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide | (2) | ND | 10 |
| Perfluorooctyl Acid (PFOA) | | ND | 10 |

Remark: Reference Information: Directive 2006/122/EC

- (i) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (ii) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m² of the coated material.

Test Part Description:

1. Silvery metal pin

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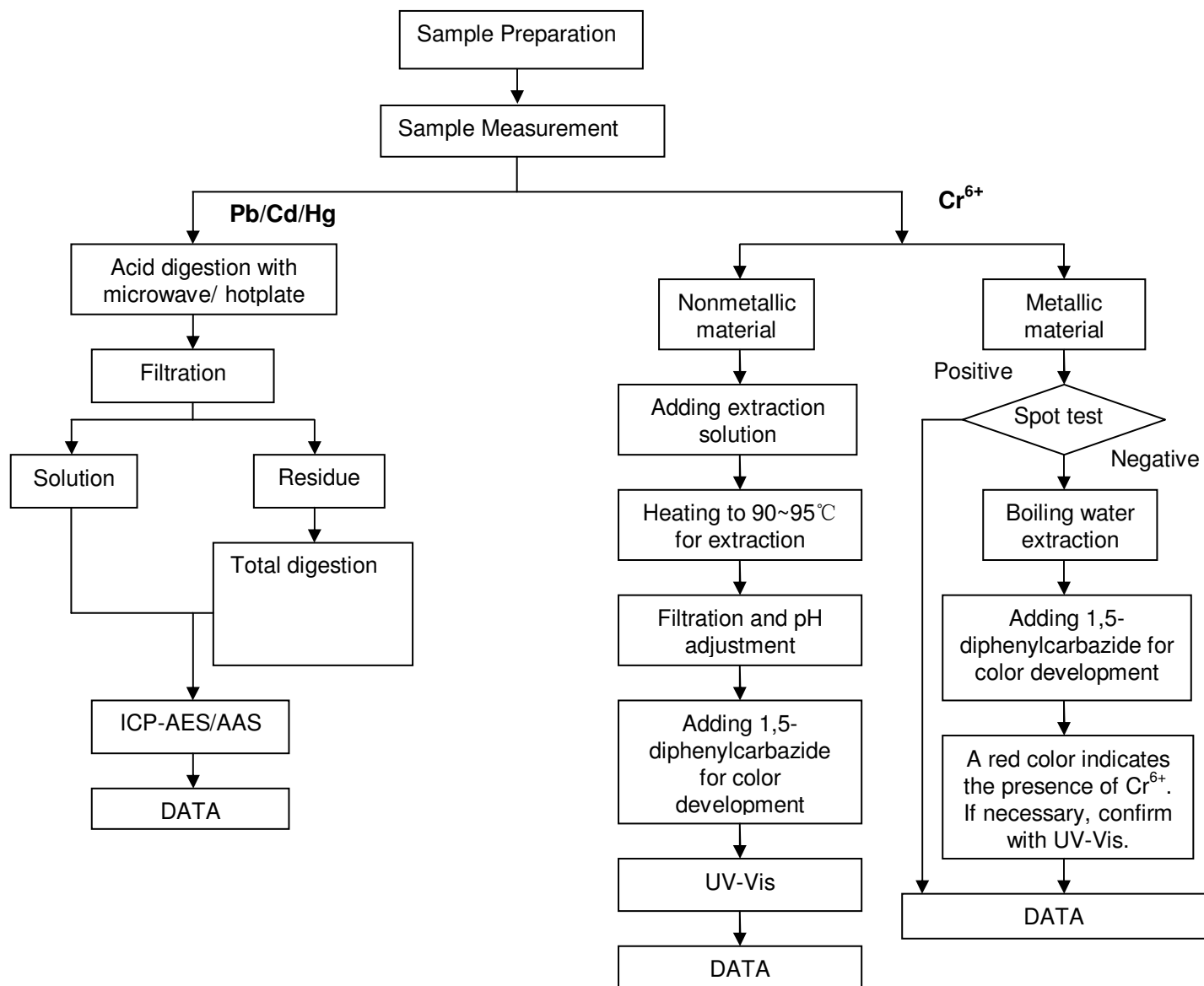
Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) # = 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.
 - For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.
- (5) “-” = Not Regulated
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

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ATTACHMENTS

- 1) Name of the person who made measurement: Jeff Zhang/Chaven Lian/Frank Fang
- 2) Name of the person in charge of measurement: Terry Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



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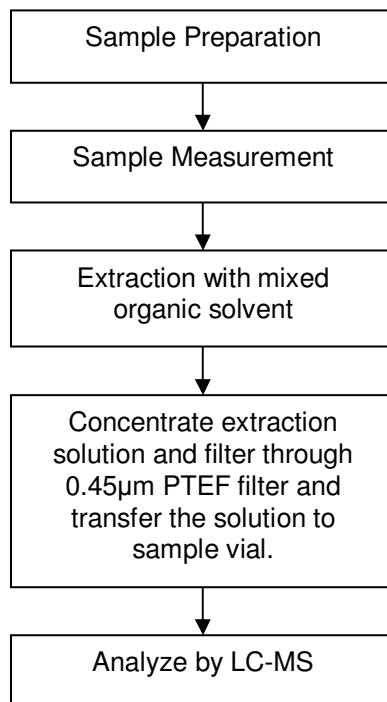
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PFOS/PFOA Measurement Flowchart for sample



Tested by : Judy Li
Checked by : Jenny Liu

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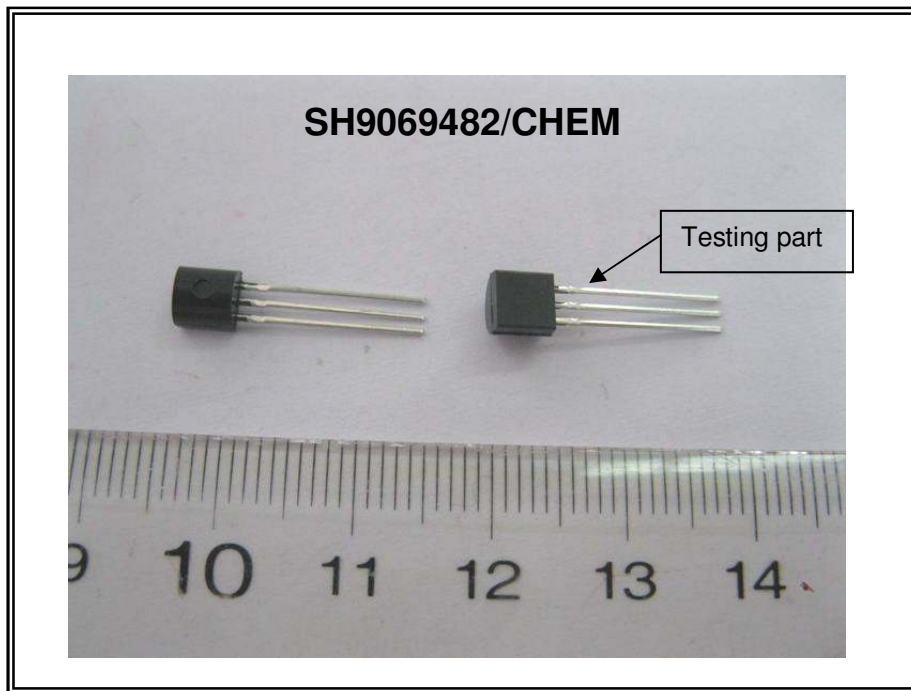
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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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