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SHANGHAI BAOSHAN IRON&STEEL CO.,LTD

NO.1800 TONGJI ROAD, BAOSHAN, SHANGHAI, CHINA

#### THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAEC1307265419 DATE: 2013/05/13

The following sample(s) was/were submitted and identified on behalf of the clients as : CONTINUOUSLY HOT-DIP ZINC COATED STEEL SHEET&STRIP,CHEMICAL PASSIVATED WITHOUT HEXAVALENT CHROMIUM

| SGS Job No. :             | SP13-011722 - SH   |
|---------------------------|--|
| Date of Sample Received : | 26 Apr 2013  |
| Testing Period :          | 26 Apr 2013 - 04 May 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 selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits in RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC. |

Signed for and on behalf of SGS-CSTC Ltd.

JJ Fan Approved Signatory

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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description              |
|--------------|------------------|--------------------------|
| 1            | SHA13-072654.060 | Grey-silvery metal board |
| 2            | SHA13-072654.061 | Grey-silvery metal board |

#### 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 : (1) IEC 62321:2008 application of modified digestion by surface etching for Cadmium, Lead and Mercury, analysis by ICP-OES
(2) With reference to IEC 62321:2008 for Hexavalent Chromium by spot test / Colorimetric Method.

| <u>Test Item(s)</u>          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>060</u> |
|------------------------------|--------------|-------------|------------|------------|
| Lead (Pb)                    | 1000         | mg/kg       | 10         | 15         |
| Cadmium (Cd)                 | 100          | mg/kg       | 10         | ND         |
| Mercury (Hg)                 | 1000         | mg/kg       | 10         | ND         |
| Hexavalent Chromium (Cr(VI)) | -            | -           | $\diamond$ | Negative   |

#### Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) Spot-test:
  - Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) 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 Cr(VI) coating

Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

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

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#### Perfluorooctane Sulfonates (PFOS) and Perfluorooctanoic Acid (PFOA)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

| <u>Test Item(s)</u>                           | <u>Limit</u> | <u>Unit</u> | MDL | <u>061</u> |
|---|--------------|-------------|-----|------------|
| Perfluorooctane Sulfonates (PFOS) and related | 1            | µg/m²       | 1   | ND         |
| Acid,Metal Salt and Amide                     |              |             |     |            |
| Perfluorooctanoic Acid (PFOA)                 | -            | µg/m²       | 1   | ND         |

#### Notes :

Max. limit specified by commission regulation (EU) No. 757/2010 amending regulation (EC) No 850/2004.

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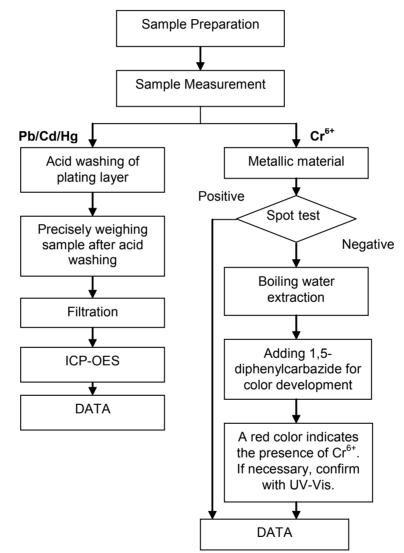


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# ATTACHMENTS

### Plating Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

- 1) Name of the person who made testing: Yoyo Wang/Allen Xiao
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu
- 3) Acid washing testing of Pb, Cd and Hg reach total dissolution



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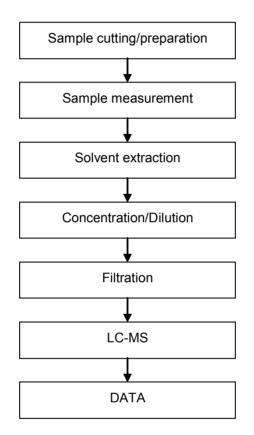
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### **PFOS/PFOA Testing Flow Chart**

- 1) Name of the person who made testing: Judy Li
- 2) Name of the person in charge of testing: Myra Ma



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Sample photo:



SGS authenticate the photo on original report only

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

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