

Test Report Date: 06 Mar 2018 No. SHAEC1803831609 Page 1 of 4

ZHEJIANG ENPU ELECTRICAL CO.,LTD

NO.5 SIQIAN ROAD XINGUANG INDUSTRIAL ZONE LIUSHI YUEQING WENZHOU.ZJ CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Plug terminal socket

terminal

SGS Job No.: SP18-005711 - SH

Model No.: 3.5-4.5 Material No.: **Brass** 

Date of Sample Received: 02 Mar 2018

Testing Period: 02 Mar 2018 - 06 Mar 2018

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 sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Helen Liu

Approved Signatory

Hele Lin



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Test Results:

### **Test Part Description:**

Specimen No. SGS Sample ID Description
SN1 SHA18-038316.005 Silvery metal

#### Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL)
- (4) "-" = Not Regulated

## RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	33
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND

#### Notes:

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
  - IEC 62321 series is equivalent to EN 62321 series
  - http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:1258637,25
- (2)▼ = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than  $0.10 \,\mu g/cm^2$ ). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu g/cm^2$  and 0.13  $\mu g/cm^2$  is considered to be inconclusive unavoidable coating variations may influence the determination
  - 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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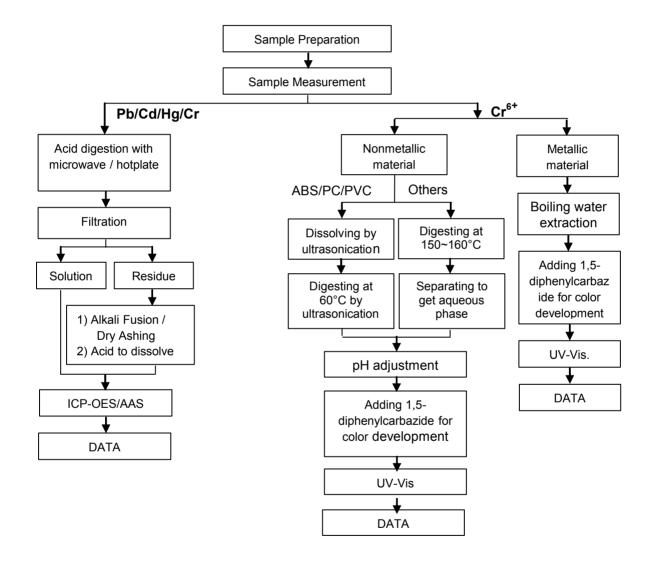
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### **ATTACHMENTS**

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

- 1) Name of the person who made testing: Meria Jin/Xiaolong Yang/Sielina Song
- 2) Name of the person in charge of testing: Jan Shi/Luna Xu/Shara Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)





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## Sample photo:



SGS authenticate the photo on original report only

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



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