

Test Report

No. SHAEC1708891701

Date: 08 May 2017

Page 1 of 5

SHANGHAI RICHENG ELECTRONICS CO.,LTD
XINSHEN INDUSTRIAL AREA,ZHELIN,FENGXIAN,SHANGHAI

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

SGS Job No. : SP17-015589 - SH
Date of Sample Received : 08 May 2017
Testing Period : 08 May 2017 - 08 May 2017
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.

Marry Ma

Marry Ma
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA17-088917.001	Copper metal

Remarks :

- (1) 1 mg/ g 0.0001
- (2) MDL Method Detection Limit
- () ND Not Detected (MDL)
- () - Not Regulated

RoHS Directive (EU) 2015/8 amending Annex II to Directive 2011/ 5/EU

Test Method : (1) with reference to IEC 6221-5:201 , determination of Cadmium by ICP-OES.
 (2) with reference to IEC 6221-5:201 , determination of Lead by ICP-OES.
 () with reference to IEC 6221- :201 , determination of Mercury by ICP-OES.
 () with reference to IEC 6221:2008, determination of Hexavalent Chromium by spot test / Colorimetric Method using U - is.

Test Item(s)	Limit	Unit	MDL	MDL
Cadmium (Cd)	100	mg/ g	2	70
Lead (Pb)	1000	mg/ g	2	279
Mercury (Hg)	1000	mg/ g	2	ND
Hexavalent Chromium (Cr(VI))	-	-	-	Negative

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/8 . IEC 6221 series is equivalent to EN 6221 series
http://www.cenelec.eu/dyn/www/f?p=10:0:1722287051101:::FSP_ORG_ID,FSP_LANG_ID:1258,7,25
- (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/ g with 50 cm² sample surface area.
 Information on storage conditions and production date of the tested sample is unavailable and thus



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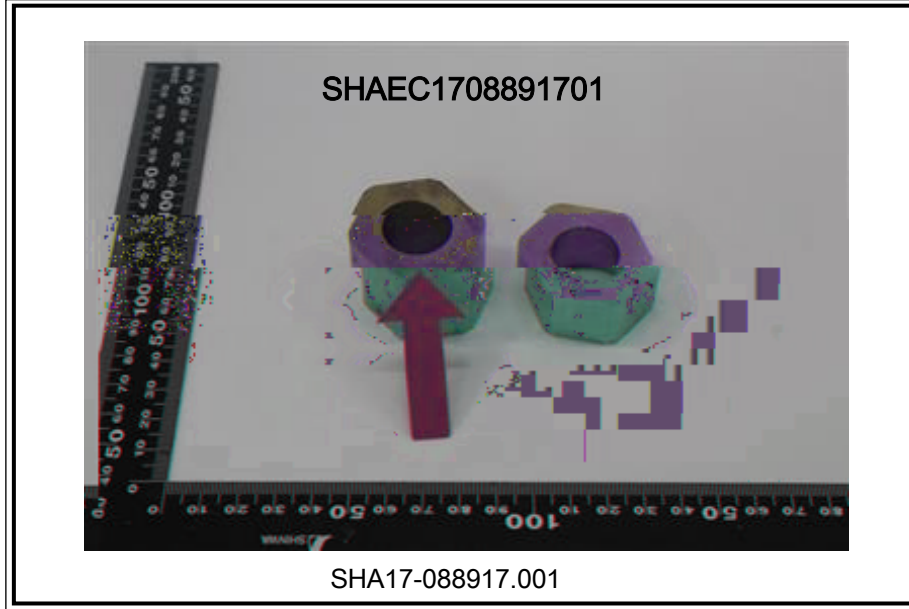
Cr(I) results represent status of the sample at the time of testing.
() According to the declaration from the client, Lead (Pb) in No.001 is exempted by EU RoHS directive 2011/ 5/EU based on ANNEX III (c) : Copper alloy containing up to lead by weight.



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Sample photo:



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End of Report



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