

Test Report

No. SHAEC1201888301

Date: 27 Feb 2012

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HUAN CHI BEARING GROUP CO.,LTD
HENGHE INDUSTRY ZONE,CIXI CITY,ZHEJIANG,CHINA

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

SGS Job No. : SP12-003768 - SH
Material No. : GCr15
Model No. : 620ZZ
Sample May Cover : See attachment
Date of Sample Received : 22 Feb 2012
Testing Period : 22 Feb 2012 - 27 Feb 2012
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 samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Fan Jingjie, JJ
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-018883.001	Silvery metal
2	SHA12-018883.002	Silvery metal
3	SHA12-018883.003	Silvery metal
4	SHA12-018883.004	Silvery metal
5	SHA12-018883.005	Silvery metal
6	SHA12-018883.006	Beige mud
7	SHA12-018883.007	Black soft solid

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 : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.

Test Item(s)	Limit	Unit	MDL	006	007
Cadmium (Cd)	100	mg/kg	2	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	11
Mercury (Hg)	1,000	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	2	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>007</u>
Heptabromobiphenyl	-	mg/kg	5	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND

Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) For ample 006, Result shown is of the total weight of wet sample

RoHS Directive 2011/65/EU

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	-	-	◇	Negative	Negative	Negative

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))	-	-	◇	Negative	Negative

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Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) \diamond = a. Positive means the presence of CrVI on the tested areas;
b. Negative means the absence of CrVI on the tested areas

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.

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604 ZZ	604 2RS	624 ZZ	624 2RS	635 ZZ	635 2RS	685 ZZ	685 2RS	LM11749/10
605 ZZ	605 2RS	625 ZZ	625 2RS	6300 ZZ	6300 2RS	686 ZZ	686 2RS	LM11949/10
606 ZZ	606 2RS	626 ZZ	626 2RS	6301 ZZ	6301 2RS	687 ZZ	687 2RS	LM12749/10
607 ZZ	607 2RS	627 ZZ	627 2RS	6302 ZZ	6302 2RS	688 ZZ	688 2RS	LM12749/11
608 ZZ	608 2RS	628 ZZ	628 2RS	6303 ZZ	6303 2RS	689 ZZ	689 2RS	LM67048/10
609 ZZ	609 2RS	629 ZZ	629 2RS	6304 ZZ	6304 2RS	6800 ZZ	6800 2RS	LM48548/10
6000 ZZ	6000 2RS	6200 ZZ	6200 2RS	6305 ZZ	6305 2RS	6801 ZZ	6801 2RS	L44643/10
6001 ZZ	6001 2RS	6201 ZZ	6201 2RS	6306 ZZ	6306 2RS	6802 ZZ	6802 2RS	L44649/10
6002 ZZ	6002 2RS	6202 ZZ	6202 2RS	6307 ZZ	6307 2RS	6803 ZZ	6803 2RS	L68149/10
6003 ZZ	6003 2RS	6203 ZZ	6203 2RS	6308 ZZ	6308 2RS	6804 ZZ	6804 2RS	L68149/11
6004 ZZ	6004 2RS	6204 ZZ	6204 2RS	6309 ZZ	6309 2RS	6805 ZZ	6805 2RS	M12649/10
6005 ZZ	6005 2RS	6205 ZZ	6205 2RS	6310 ZZ	6310 2RS	6806 ZZ	6806 2RS	JL69349/10
6006 ZZ	6006 2RS	6206 ZZ	6206 2RS	6311 ZZ	6311 2RS	695 ZZ	695 2RS	L45449/10
6007 ZZ	6007 2RS	6207 ZZ	6207 2RS	6312 ZZ	6312 2RS	696 ZZ	696 2RS	16003
6008 ZZ	6008 2RS	6208 ZZ	6208 2RS	6313 ZZ	6313 2RS	697 ZZ	697 2RS	16004
6009 ZZ	6009 2RS	6209 ZZ	6209 2RS	6314 ZZ	6314 2RS	698 ZZ	698 2RS	16005
6010 ZZ	6010 2RS	6210 ZZ	6210 2RS	6315 ZZ	6315 2RS	699 ZZ	699 2RS	16006
6011 ZZ	6011 2RS	6211 ZZ	6211 2RS	6316 ZZ	6316 2RS	6900 ZZ	6900 2RS	16007
6012 ZZ	6012 2RS	6212 ZZ	6212 2RS	30203	R3 ZZ	6901 ZZ	6901 2RS	16008
6013 ZZ	6013 2RS	6213 ZZ	6213 2RS	30204	R4 ZZ	6902 ZZ	6902 2RS	16009
6014 ZZ	6014 2RS	6214 ZZ	6214 2RS	30205	R4A ZZ	6903 ZZ	6903 2RS	16010
6015 ZZ	6015 2RS	6215 ZZ	6215 2RS	30206	R6 ZZ	6904 ZZ	6904 2RS	98205
6016 ZZ	6016 2RS	6216 ZZ	6216 2RS	30207	R8 ZZ	6905 ZZ	6905 2RS	98305
6017 ZZ	6017 2RS	6217 ZZ	6217 2RS	30208	R10 ZZ	6906 ZZ	6906 2RS	SC0563
6018 ZZ	6018 2RS	6218 ZZ	6218 2RS	30209	R3 2RS	R4A 2RS	R8 2RS	63/28
6019 ZZ	6019 2RS	6219 ZZ	6219 2RS	30210	R4 2RS	R6 2RS	R10 2RS	62202
88507	88511	6700-2RS	1602	30211	32004	16010	62/22 2RS	62203
88508	88512	32206	32210	30212	32005	32009	99502H	62204
88509	32203	32207	32211	30213	32006	32010	32013	62205
T88509	32204	32208	32212	30214	32007	32011	32014	62206
88510	32205	32209	32213	30215	32008	32012	32015	62207

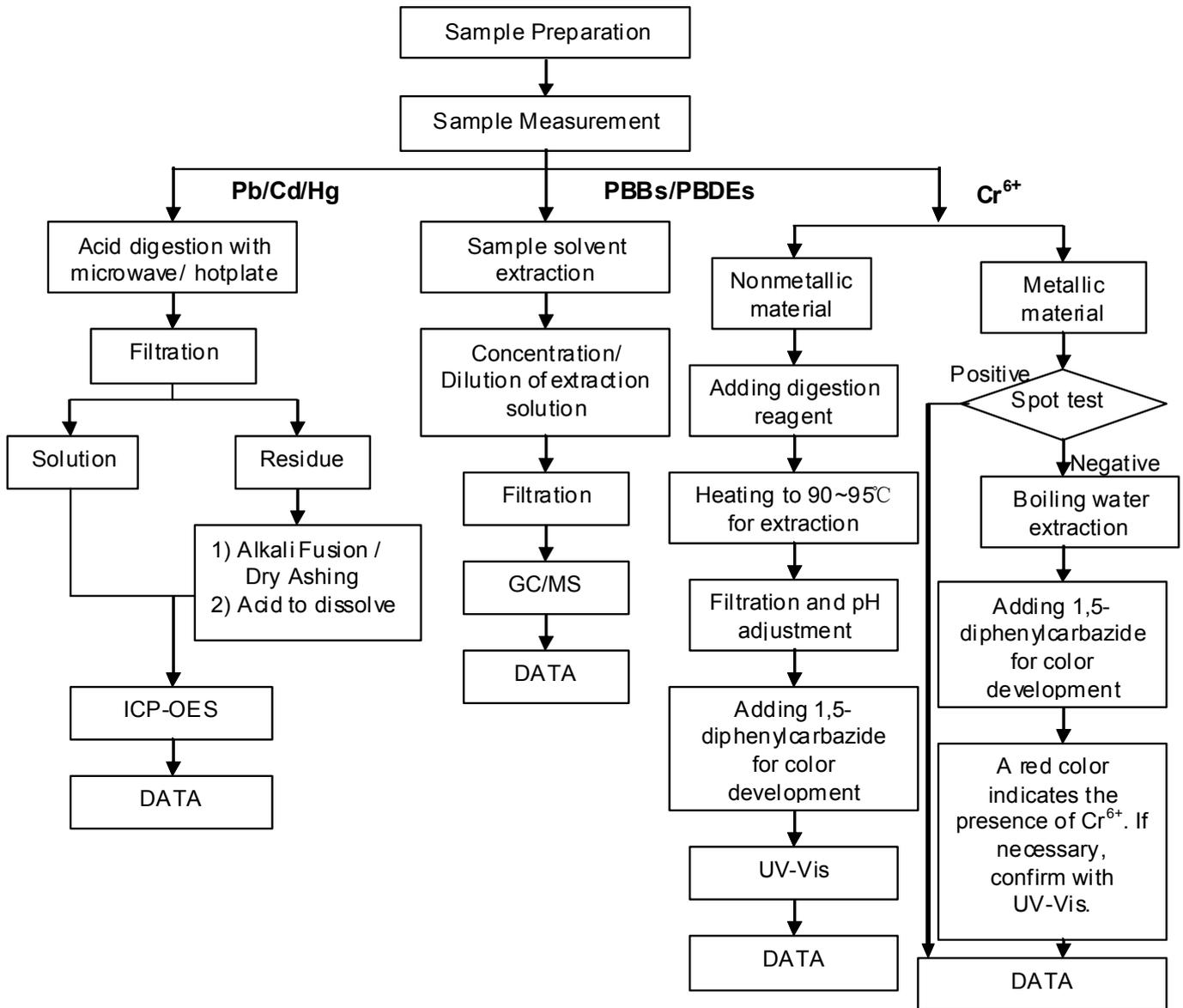
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Elim Lin
- 3) These samples were dissolved totally by pre-conditioning methods according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Sample photo:

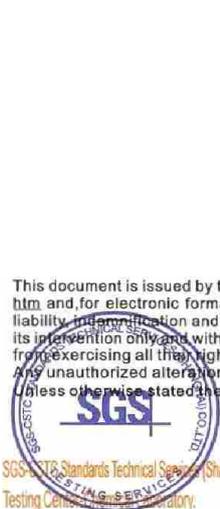


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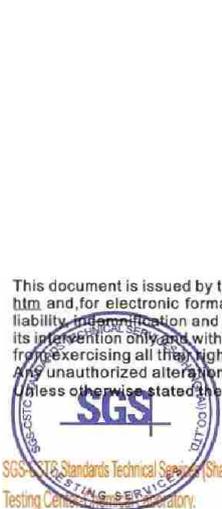


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