

Test Report

No. TSNEC1800393701

Date: 16 Mar 2018

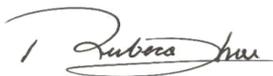
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XINGTAI IRON AND STEEL CORP.,LTD
262 GANGTIE ROAD, XINGTAI, HEBEI, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : HOT ROLLED STEEL WIRE RODS

SGS Job No. : TP18-001436 - TJ
Main Substance : Fe
Model No. : XG10B21
Client Ref. Info. : Other Model No.:SEE ATTACHMENT:
Date of Sample Received : 12 Mar 2018
Testing Period : 12 Mar 2018 - 15 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, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) 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 (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN18-003937.001	grey metal bar

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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, IEC 62321-6:2015, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	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 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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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The Attachment:

XGSWRCH6AB-22AB、SWRCH6AB-22AB、D106BT、D108BT、SAE1006B-1018B、SAE1006-Ti、SAE1008-Ti、SAE1010-Ti、SAE1018-Ti、SAE10B15、XGML08Al、ML35、15CrMo、35CrMo、ML42CrMo、ML20Cr、XGML20Cr、QML20Cr-B、ML40Cr、XGML40Cr、GML40Cr、SAE10B22、SWRCH6A+Ti、SWRCH18ATi、SWRCH22A+Ti、QSWRCH18AB-B、ML15Al、ML35、SWRCH6-22A、XGSWRCH6-22A、SWRCH10-45K、XGSWRCH10-45K、XGSWRCH35K-1、50BV30、SAE6150、B7、SCM420/435/440、GSCM420-C、GSCM435-A、GSCM435-B、GSCM435-C、QSCM435-A、QSCM435-B、QSCM435-C、QSWRCH35K-B、GSWRCH10A-B、QSWRCH10A-B、G10B21-C、G10B21-A、G10B21-B、10B25、10B21、XG15B25、15B25、C4C、C10C、XG10B21、10B28、XG10B28、10B30、XG10B30、10B33、XG10B33、XG10B33M、SAE1008-1018、ML20MnTiB、35ACR、XG35ACR、40ACR、XG40ACR、S35C、GS35C-A、XGS35C、S45CB、XGS45CB、16MnCr5、20MnB4、G33B2-B、MnB123H、ML45Mn2、QML45Mn2、1215、1215MS-1、51B20、XGS15C-45C、S15C-45C、XGML20MnTiB、20CrMo、20CrMnTi、30CrMnTi、Cq15、35VB、LY1、LY、CH1T、CH1A、XGM6-1、GCr15、GCr15-Y、GCr15-L、GCr15-ZWZ、GCr15-LX、GCr15-LX1、XGLX82A、XGLX72A-1、XGLX72B、55SiCrA-1、55SiCrA、60Si2MnA、60Si2CrA、SWRS82B



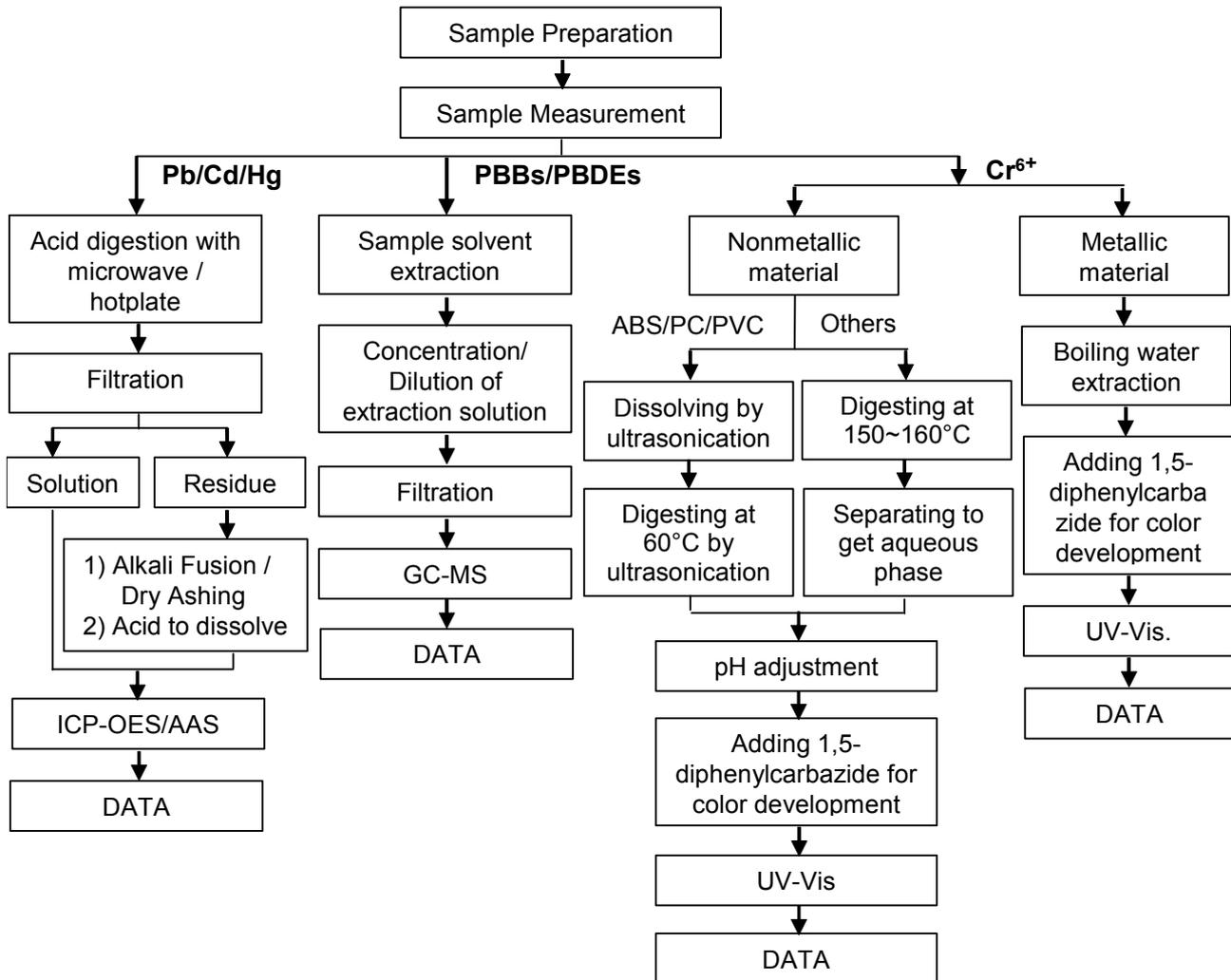
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ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Cathy Zhang/Crystal Wang/Ann Wang
- 2) Name of the person in charge of testing: Aaron Wang/Rex Zhu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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