

Test Report

No. TSNEC2300888101

Date: 12 Apr 2023

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Client Name : XINGTAI IRON AND STEEL CORP. , LTD

Client Address : 262 GANGTIE ROAD , XINGTAI , HEBEI , CHINA

Sample Name : HOT ROLLED STEEL WIRE RODS

Model No. : SWRCH22A

Client Ref. Info. : SEE ATTACHMENT:

The above sample(s) and information were provided by the client.

SGS Job No. : TP23-002407 - TJ

Date of Sample Received : 07 Apr 2023

Testing Period : 07 Apr 2023 - 12 Apr 2023

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Rebecca Zhou
Approved Signatory

scan to see the report



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN23-008881.001	grey metal

Remarks :

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method : With reference to IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼= 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.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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(XG)SWRCH6-22A、(XG)SWRCH6AB-22AB、SWRCH6ATi/8ATi/18ATi、
 SWRCH6AB-Ti、SWRCH18AB-THA、SWRCH22A+Ti、SWRCH22A-Ti、
 SWRCH6A/10A/12A-P、GSWRCH6A-A(A1)、GSWRCH10A/15A、GSWRCH10A/12A/22A-1、
 GSWRCH10A-X、GSWRCH10A/15A/18A/22A-B、SWRCH18A-G、QSWRCH10A/18A/22A、
 QSWRCH8A/10A/12A/15A/18A/22A-B、QSWRCH10A/18A/22A-C、QSWRCH18AB-B、
 (XG)SWRCH10-45K、GSWRCH20K/25K/35K/40K/45K、QSWRCH20K/25K/35K/40K/45K、
 QSWRCH20K/25K/35K/40K/45K-MT、SWRCH35K-P、XGSWRCH45KB、XGSWRCH45KCr、
 GSWRCH35K-1、GSWRCH35KM、GSWRCH35K-B、QSWRCH35K-B、SWRCH40K-
 1(QSWRCH40K-C)、QSWRCH45K-B、QSWRCH35K/45K-C、10B21-38、10B33-FY、10B33-FLT、
 10B21Cr-33Cr、15B25、51B20、SAE10B21、SWRCH10B21、SAE10B35(A)、XG10B21-38、
 XG10B33M、XG15B21、XG15B25、10B21-1、10B21-P、10B33-P、G10B21、G10B33、
 G10B21-C、Q10B21、Q10B21-C、Q10B21-K、Q10B21-DW (10B21)、Q10B23M-C、Q10B33-C、
 Q15B25M-MT、Q15B25M、B25、Q15B25-B、QSAE10B35-B、(XG)ML20Cr、GML20Cr、
 GML20Cr-B、QML20Cr、QML20Cr-B、QML20Cr-DF、(XG)ML40Cr、ML40Cr-P、GML40Cr、
 GML40Cr-A/B、QML40Cr-B、QML40CrH-C、SCM415/420/435/440、SCM435-M/D、
 GSCM420/435/440-C、QSCM435/440-C、QSCM435(-MT)、15-35CrMo、35CrMoA、ML20CrMo、
 (ML)42CrMo(A)、GML42CrMo、S15C-45C、XGS15C-45C、GS35C-1、GS45C-1、S45CB、
 S45CMOD、XGS45C-JC、XGS45CB、(XG)S45C-G、GS25C/35C/45C-A、GS25C/35C/45C-B、
 QS35C-C、ML08Al、ML08Al-1、ML15Al、HD15、XGML08Al、ML35、GML08Al-B、
 (XG)ML20MnTiB、ML20MnTiB-B、G/QML20MnTiB-B、SAE1008-1018、SAE1006B-1018B、
 SAE1006/1008/1010/1018-Ti、GSAE1018、QSAE1018(-B)、QSAE8640-B、(XG)35ACR、
 WRCH7A (Q40ACR-C)、D106BT、D108BT、C4/8/10C、QC15C-B、1215、1215MS-1、
 20CrMnTi、30CrMnTi、(G/Q)ML45Mn2、M8、M10、LY1、LY、CH1T、CH1A、DT4、XGYT0、
 XGYT1、XGM6-1/2/PB、XG295NH、G295NH、XG835NH、50BV30、SAE6150、B7、16MnCr5、
 (Q)20MnB4、30MnVS6、40CrMoV、40CrMoV4-6、SNB16、B16、C15E2CM、G33B2-B、
 MnB120H、MnB123H、QSt32-3、Cq15、Q17Cr3-B、Q37MnB5、Q15MnVB-A、35VB、SCr420B、
 SCr440、GSWRH67B、FT8、FT9、Q85Mn、GCr15、GCr15-1、GCr15-A、GCr15-DH、GCr15-Y、
 GCr15-L、GCr15-ZWZ、GCr15-LX、GCr15-LX1、QGCr15、(XG)SWRH72A、XGLX82A、
 XGLX82A-P、XGLB72/75/82/85A(B)、XGLX72A-1、XGLX72B、55SiCrA(-1)、Q55SiCrA-1(54SiCr6)、
 60Si2MnA、60Si2CrA、SWRS82B、GSWRH82B-1、HG18、Q215、LL15、S20A、20CrMnTi、
 30CrMnTi、25MnV、FT8-1、LD22、QS20C-B、(X)ER70S-6、NHF8、9SiCr、20Mn2、
 SWRH85B-DL、SWRH82BCr、SWRY11、Q195、Q195M、PYML1100、H13、MH600、
 QS45C-C、65Mn、T12A



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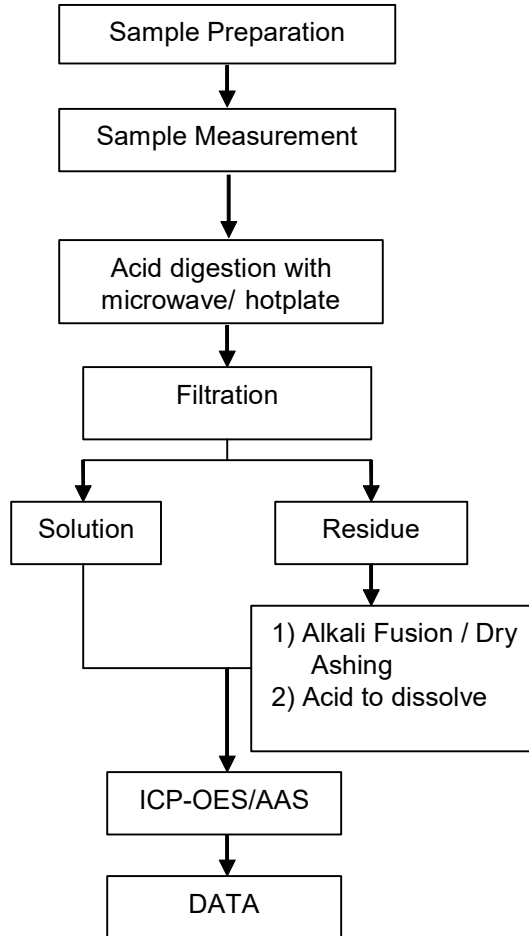
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.



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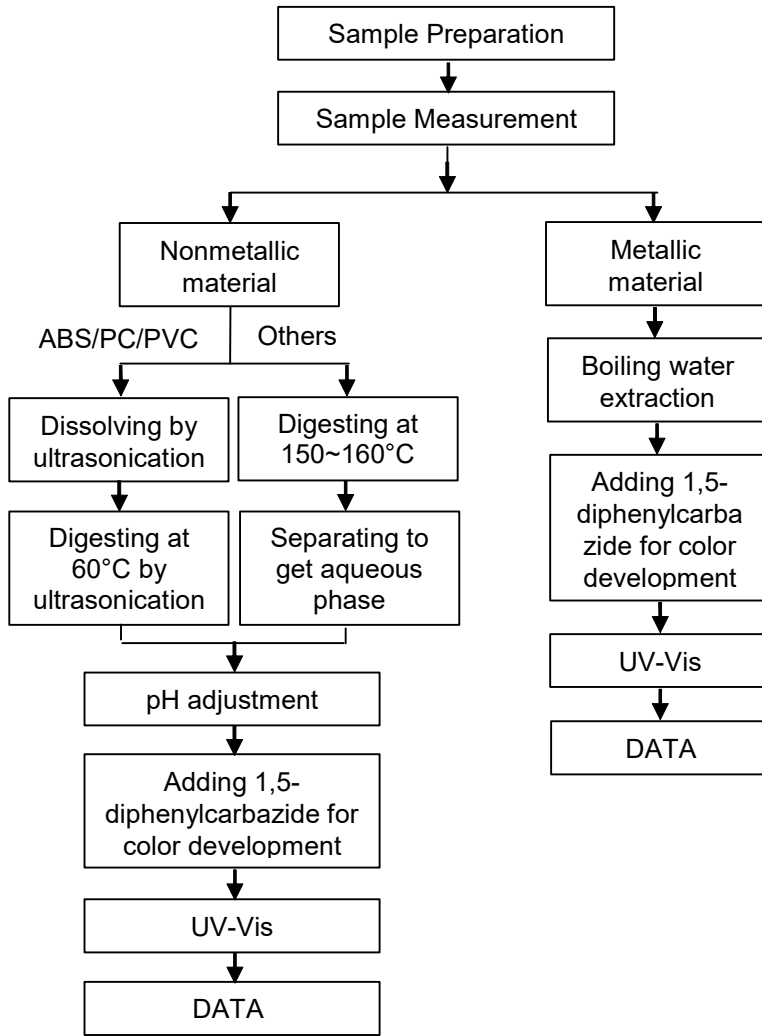
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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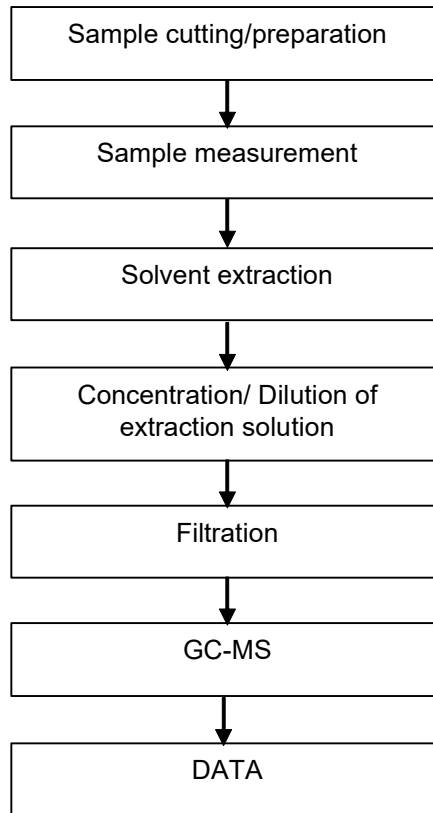
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PBBs/PBDEs Testing Flow Chart

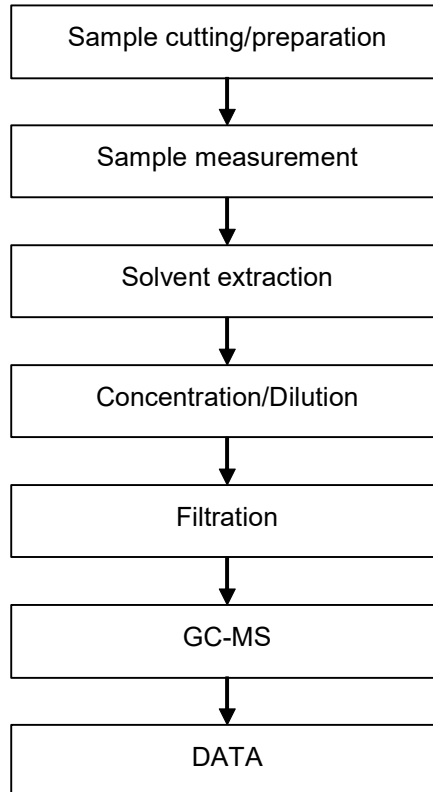


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Phthalates Testing Flow Chart



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