

## Test Report (SVHC)

No. TSNEC2100372701

Date: 18 Mar 2021

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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. : TP21-001206 - TJ  
Main Substance : Fe  
Model No. : SWRCH18A  
Client Ref. Info. : Other Model No.:SEE ATTACHMENT:  
Date of Sample Received : 10 Mar 2021  
Testing Period : 10 Mar 2021 - 17 Mar 2021  
Test Requested : As requested by client, SVHC screening is performed according to:  
(i) Sixty (60) inorganic substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 19, 2021 regarding Regulation (EC) No 1907/2006 concerning the REACH.  
Test Results : Please refer to next page(s).

### Summary :

According to the specified scope and evaluation screening, the test results of SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS
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Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou  
Approved Signatory

scan to see the report



TSNEC2100372701



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### Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table>  
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:  
2.1 Concerning article(s):  
Communication:  
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
  - (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or
  - (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
  - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or
  - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

### Test Sample :

#### Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN21-003727.001	grey metal bar

### Test Method :

SGS In-House method-TJChemLab-TOP-004-4, Analyzed by ICP-OES, UV-VIS and Colorimetric Method.



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### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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## Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.  
Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit (Test data will be shown if it  $\geq$  RL. RL is not regulatory limit.)  
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. \* The test result is based on the calculation of selected element(s) and to the worst-case scenario.  
For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

Calculated concentration of boric compounds are based on the total boron for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.

RL=0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).



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## Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	Cobalt dichloride*	7646-79-9	0.005
I	2	Diarsenic pentaoxide*	1303-28-2	0.005
I	3	Diarsenic trioxide*	1327-53-3	0.005
I	4	Lead hydrogen arsenate*	7784-40-9	0.005
I	5	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
II	6	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	7	Lead chromate*	7758-97-6	0.005
II	8	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
III	9	Ammonium dichromate*	7789-09-5	0.005
III	10	Boric acid*	-	0.005
III	11	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	12	Potassium chromate*	7789-00-6	0.005
III	13	Potassium dichromate*	7778-50-9	0.005
III	14	Sodium chromate*	7775-11-3	0.005
III	15	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	16	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	17	Chromium trioxide*	1333-82-0	0.005
IV	18	Cobalt(II) carbonate*	513-79-1	0.005
IV	19	Cobalt(II) dinitrate*	10141-05-6	0.005



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## Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	20	Cobalt(II) sulphate*	10124-43-3	0.005
V	21	Strontium chromate*	7789-06-2	0.005
VI	22	Aluminosilicate Refractory Ceramic Fibres *	-	0.005
VI	23	Arsenic acid*	7778-39-4	0.005
VI	24	Calcium arsenate*	7778-44-1	0.005
VI	25	Dichromium tris(chromate) *	24613-89-6	0.005
VI	26	Lead diazide, Lead azide*	13424-46-9	0.005
VI	27	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	28	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	29	Trilead diarsenate*	3687-31-8	0.005
VI	30	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	31	Diboron trioxide*	1303-86-2	0.005
VIII	32	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	33	Lead cyanamidate*	20837-86-9	0.005
VIII	34	Lead dinitrate*	10099-74-8	0.005
VIII	35	Lead monoxide*	1317-36-8	0.005
VIII	36	Lead oxide sulfate*	12036-76-9	0.005
VIII	37	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	38	Lead titanium trioxide*	12060-00-3	0.005
VIII	39	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	40	Pentalead tetraoxide sulphate*	12065-90-6	0.005



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## Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	41	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	42	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	43	Silicic acid, lead salt*	11120-22-2	0.005
VIII	44	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	45	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	46	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	47	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	48	Cadmium oxide*	1306-19-0	0.005
IX	49	Cadmium*	7440-43-9	0.005
X	50	Cadmium sulphide*	1306-23-6	0.005
XI	51	Cadmium chloride*	10108-64-2	0.005
XI	52	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	53	Sodium peroxometaborate*	7632-04-4	0.005
XII	54	Cadmium fluoride*	7790-79-6	0.005
XII	55	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XVIII	56	Cadmium nitrate*	10325-94-7	0.005
XVIII	57	Cadmium carbonate*	513-78-0	0.005
XVIII	58	Cadmium hydroxide*	21041-95-2	0.005
XIX	59	Disodium octaborate*	12008-41-2	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	60	Lead*	7439-92-1	0.005



SGS-CTC (Tianjin) Co., Ltd.  
Chemical Laboratory

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### ATTACHMENT:

#### OTHER MODEL NO.:

(XG)SWRCH6-22A	(XG)SWRCH6AB-22AB	SWRCH6ATi/8ATi/18ATi
SWRCH6AB-Ti	SWRCH18AB-THA	SWRCH22A + Ti
SWRCH22A -Ti	GSWRCH6A-A( A1)	GSWRCH10A
GSWRCH10A/12A/22A-1	GSWRCH10A/15A/18A/22A-B	QSWRCH8A/10A/12A/15A/18A/22A-B
QSWRCH10A-C	QSWRCH18AB-B	(XG)SWRCH10-45K
GSWRCH20K/25K/35K/40K/45K	QSWRCH20K/25K/35K/40K/45K	QSWRCH20K/25K/35K/40K/45K-MT
XGSWRCH45KB	XGSWRCH45KCr	GSWRCH35K-1
GSWRCH35KM	GSWRCH35K-B	QSWRCH35K-B
SWRCH40K-1(QSWRCH40K-C)	QSWRCH45K-B	QSWRCH45K-C
10B21-38	10B33-FY	10B33-FLT
10B21Cr-33Cr	15B25	51B20
SAE10B21	SWRCH10B21	SAE10B35
XG10B21-38	XG10B33M	XG15B21
XG15B25	G10B21	G10B21-C
Q10B21-C	Q10B21-DW(10B21)	Q10B23M-C
Q15B25M-MT	Q15B25M	Q15B25-B
QSAE10B35-B	(XG)ML20Cr	GML20Cr
GML20Cr-B	QML20Cr-B	QML20Cr-DF
(XG)ML40Cr	GML40Cr	GML40Cr-A/B
QML40Cr-B	QML40CrH-C	SCM415/420/435/440
SCM435-M	GSCM420/435/440-C	QSCM435/440-C
QSCM435-MT	15-35CrMo	ML20CrMo
ML42CrMo(A)	GML42CrMo	S15C-45C
XGS15C-45C	GS35C-1	GS45C-1
S45CB	S45CMOD	XGS45C-JC
XGS45CB	GS25C/35C/45C-A	GS25C/35C/45C-B
QS35C-C	ML08AI	ML15AI
HD15	XGML08AI	ML35
GML08AI-B	(XG)ML20MnTiB	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	20MnB4	30MnVS6
40CrMoV	40CrMoV4-6	SNB16
B16	C15E2CM	G33B2-B



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## Test Report (SVHC)

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MnB120H  
Cq15  
Q15MnVB-A  
SCr440  
FT9  
GCr15-A  
GCr15-L  
GCr15-LX1  
XGLX82A  
XGLX72A-1  
Q55SiCrA-1(54SiCr6)  
SWRS82B  
Q215  
20CrMnTi  
FT8-1

MnB123H  
Q17Cr3-B  
35VB  
GSwRH67B  
Q85Mn  
GCr15-DH  
GCr15-ZWZ  
QGCr15  
XGLX82A-P  
XGLX72B  
60Si2MnA  
GSwRH82B-1  
LL15  
30CrMnTi  
LD22

QSt32-3  
Q37MnB5  
SCr420B  
FT8  
GCr15  
GCr15-Y  
GCr15-LX  
(XG)SwRH72A  
XGLB72/75/82/85A(B)  
55SiCrA(-1)  
60Si2CrA  
HG18  
S20A  
25MnV  
QS20C-B



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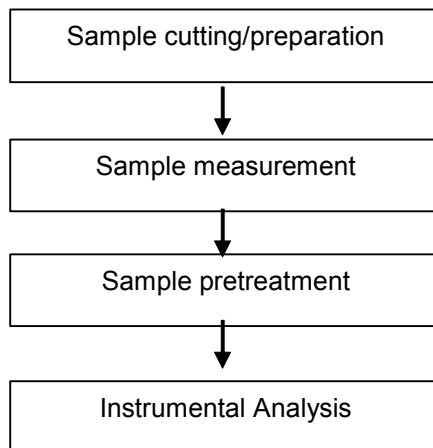
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### SVHC Testing Flow Chart



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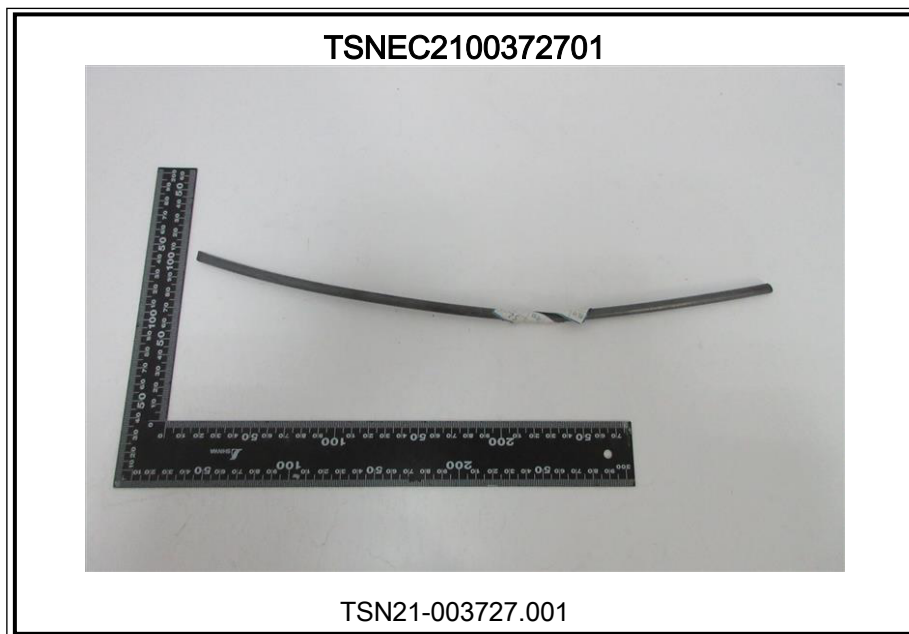
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