

Test Report (SVHC)

No. TSNEC2200366103 A01

Date: 14 Jun 2022

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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
 Main Substance : Fe
 Model No. : 10B21
 Client Ref. Info. : SEE ATTACHMENT:
 The above sample(s) and information were provided by the client.

This report is to supersede test report TSNEC2200366101

SGS Job No. : TP22-004541 - TJ
 Date of Sample Received : 07 Mar 2022
 Testing Period : 07 Mar 2022 - 10 Mar 2022
 Test Requested : As requested by client, SVHC screening is performed according to:
 (i) Sixty one (61) inorganic substances and additional eleven (11) organic metallic substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 17, 2022 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 Test Result(s) : 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



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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 composite 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	TSN22-003661.001	black metal

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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Chemical Laboratory

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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.
Calculated concentration of boric compounds are based on water extractive boron detected 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)).
4. This report updates Client Ref. Info.

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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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
I	6	Triethyl arsenate*	15606-95-8	0.005
II	7	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	8	Lead chromate*	7758-97-6	0.005
II	9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
III	10	Ammonium dichromate*	7789-09-5	0.005
III	11	Boric acid*	-	0.005
III	12	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	13	Potassium chromate*	7789-00-6	0.005
III	14	Potassium dichromate*	7778-50-9	0.005
III	15	Sodium chromate*	7775-11-3	0.005
III	16	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	17	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	18	Chromium trioxide*	1333-82-0	0.005
IV	19	Cobalt(II) carbonate*	513-79-1	0.005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	20	Cobalt(II) diacetate*	71-48-7	0.005
IV	21	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	22	Cobalt(II) sulphate*	10124-43-3	0.005
V	23	Strontium chromate*	7789-06-2	0.005
VI	24	Aluminosilicate Refractory Ceramic Fibres *	-	0.005
VI	25	Arsenic acid*	7778-39-4	0.005
VI	26	Calcium arsenate*	7778-44-1	0.005
VI	27	Dichromium tris(chromate) *	24613-89-6	0.005
VI	28	Lead diazide, Lead azide*	13424-46-9	0.005
VI	29	Lead dipicrate*	6477-64-1	0.005
VI	30	Lead styphnate*	15245-44-0	0.005
VI	31	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	32	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	33	Trilead diarsenate*	3687-31-8	0.005
VI	34	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	35	Diboron trioxide*	1303-86-2	0.005
VII	36	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VIII	37	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	38	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	39	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	40	Fatty acids, C16-18, lead salts*	91031-62-8	0.005

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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	41	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	42	Lead cyanamidate*	20837-86-9	0.005
VIII	43	Lead dinitrate*	10099-74-8	0.005
VIII	44	Lead monoxide*	1317-36-8	0.005
VIII	45	Lead oxide sulfate*	12036-76-9	0.005
VIII	46	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	47	Lead titanium trioxide*	12060-00-3	0.005
VIII	48	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	49	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	50	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	51	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	52	Silicic acid, lead salt*	11120-22-2	0.005
VIII	53	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	54	Tetraethyllead*	78-00-2	0.005
VIII	55	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	56	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	57	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	58	Cadmium oxide*	1306-19-0	0.005
IX	59	Cadmium	7440-43-9	0.005
X	60	Cadmium sulphide*	1306-23-6	0.005
X	61	Lead di(acetate)*	301-04-2	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
XI	62	Cadmium chloride*	10108-64-2	0.005
XI	63	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	64	Sodium peroxometaborate*	7632-04-4	0.005
XII	65	Cadmium fluoride*	7790-79-6	0.005
XII	66	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XVIII	67	Cadmium nitrate*	10325-94-7	0.005
XVIII	68	Cadmium carbonate*	513-78-0	0.005
XVIII	69	Cadmium hydroxide*	21041-95-2	0.005
XIX	70	Disodium octaborate*	12008-41-2	0.005
XIX	71	Lead	7439-92-1	0.005
XXV	72	Orthoboric acid, sodium salt*	13840-56-7	0.005



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(XG)SWRCH6-22A

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QSWRCH10A-C

GSRCH20K/25K/35K/40K/45K

SWRCH35K-P

GSRCH35K-1

QSWRCH35K-B

QSWRCH45K-C

10B33-FLT

51B20

SAE10B35

XG15B21

10B21-P

G10B33

Q10B21-K

Q15B25M-MT

QSAE10B35-B

GML20Cr-B

QML20Cr-DF

GML40Cr

QML40CrH-C

GSCM420/435/440-C

15-35CrMo

ML42CrMo(A)

XGS15C-45C

S45CB

XGS45CB

GS25C/35C/45C-B

ML08AI-1

XGML08AI

(XG)ML20MnTiB

SAE1008-1018

GSAE1018

(XG)35ACR

D108BT

1215

30CrMnTi

M10

CH1T

XGYT0

XG) SWRCH6AB-22AB

SWRCH18AB-THA

SWRCH6A/10A/12A-P

GSRCH10A/12A/22A-1

QSWRCH10A/18A/22A

QSWRCH18AB-B

QSWRCH20K/25K/35K/40K/45K

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GSRCH35KM

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10B21Cr-33Cr

SAE10B21

XG10B21-38

XG15B25

10B33-P

G10B21-C

Q10B21-DW (10B21)

Q15B25M

(XG)ML20Cr

QML20Cr

(XG)ML40Cr

GML40Cr-A/B

SCM415/420/435/440

QSCM435/440-C

35CrMoA

GML42CrMo

GS35C-1

S45CMOD

(XG)S45C-G

QS35C-C

ML15AI

ML35

ML20MnTiB-B

SAE1006B-1018B

QSAE1018(-B)

WRCH7A (Q40ACR-C)

C4/8/10C

1215MS-1

(G/Q)ML45Mn2

LY1

CH1A

XGYT1

SWRCH6ATi/8ATi/18ATi

SWRCH22A+Ti

GSRCH6A-A(A1)

GSRCH10A/15A/18A/22A-B

QSWRCH8A/10A/12A/15A/18A/22A-B

(XG)SWRCH10-45K

QSWRCH20K/25K/35K/40K/45K-MT

XGSRCH45KCr

GSRCH35K-B

QSWRCH45K-B

10B33-FY

15B25

SWRCH10B21

XG10B33M

10B21-1

G10B21

Q10B21-C

Q10B23M-C

Q15B25-B

GML20Cr

QML20Cr-B

ML40Cr-P

QML40Cr-B

SCM435-M

QSCM435-MT

ML20CrMo

S15C-45C

GS45C-1

XGS45C-JC

GS25C/35C/45C-A

ML08AI

HD15

GML08AI-B

G/QML20MnTiB-B

SAE1006/1008/1010/1018-Ti

QSAE8640-B

D106BT

QC15C-B

20CrMnTi

M8

LY

DT4

XGM6-1/2/PB



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SGS Mansion, No.41, The 5th Avenue TEDA, Tianjin, China 300457

t (86-22) 65288000

www.sgsgroup.com.cn

中国·天津市经济技术开发区第五大街41号SGS大厦

邮编: 300457

t (86-22) 65288000

sgs.china@sgs.com

Test Report (SVHC)

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XG295NH
50BV30
16MnCr5
40CrMoV
B16
MnB120H
Cq15
Q15MnVB-A
SCr440
FT9
GCr15-1
GCr15-Y
GCr15-LX
 XG) SWRH72A
XGLB72/75/82/85A(B)
55SiCrA(-1)
60Si2CrA
HG18
S20A
25MnV
QS20C-B
9SiCr
SWRH82BCr
Q195M

G295NH
SAE6150
(Q)20MnB4
40CrMoV4-6
C15E2CM
MnB123H
Q17Cr3-B
35VB
GSWRH67B
Q85Mn
GCr15-A
GCr15-L
GCr15-LX1
XGLX82A
XGLX72A-1
Q55SiCrA-1(54SiCr6)
SWRS82B
Q215
20CrMnTi
FT8-1
(X)ER70S-6
20Mn2
SWRY11
PYML1100

XG835NH
B7
30MnVS6
SNB16
G33B2-B
QSt32-3
Q37MnB5
SCr420B
FT8
GCr15
GCr15-DH
GCr15-ZWZ
QGCr15
XGLX82A-P
XGLX72B
60Si2MnA
GSWRH82B-1
LL15
30CrMnTi
LD22
NHF8
SWRH85B-DL
Q195
QS45C-C



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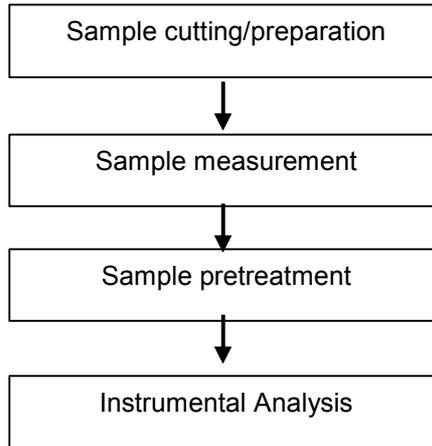
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中国·天津市经济技术开发区第五大街41号SGS大厦

t (86-22) 65288000
t (86-22) 65288000

www.sgsgroup.com.cn
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SVHC Testing Flow Chart



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中国·天津市经济技术开发区第五大街41号SGS大厦

t (86-22) 65288000
t (86-22) 65288000

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sgs.china@sgs.com