

## Test Report (SVHC)

No. TSNEC1900296701

Date: 06 Mar 2019

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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. : TP19-001469 - TJ

Main Substance : Fe

Model No. : XGSWRCH6-22A

Client Ref. Info. : Other Model No.:SEE ATTACHMENT:

Date of Sample Received : 01 Mar 2019

Testing Period : 01 Mar 2019 - 06 Mar 2019

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 Jun 27, 2018 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 $\leq 0.1\%$ (w/w) in the submitted sample. | PASS |
|---|------|

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 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          | TSN19-002967.001 | 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<br>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. All RL are based on homogenous material.  
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,<br>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*   | 10043-35-3,<br>11113-50-1              | 0.005  |
| III   | 11  | Disodium tetraborate, anhydrous*  | 1303-96-4,<br>1330-43-4,<br>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,<br>Oligomers of chromic acid and dichromic acid,<br>Dichromic acid* | 7738-94-5<br>-<br>13530-68-2           | 0.005  |
| IV    | 17  | Chromium trioxide*  | 1333-82-0                              | 0.005  |
| IV    | 18  | 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    | 19  | Cobalt(II) dinitrate*                               | 10141-05-6               | 0.005  |
| 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 *         | 650-017-00-8 (Index no.) | 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* | 650-017-00-8 (Index no.) | 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  |



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### Full list of tested SVHC:

| Batch | No. | Substance Name  | CAS No.                   | RL (%) |
|-------|-----|---|---------------------------|--------|
| VIII  | 39  | Lead titanium zirconium oxide*                            | 12626-81-2                | 0.005  |
| VIII  | 40  | Pentalead tetraoxide sulphate*                            | 12065-90-6                | 0.005  |
| 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,<br>31119-53-6 | 0.005  |
| XVIII | 56  | Cadmium nitrate*  | 10022-68-1,<br>10325-94-7 | 0.005  |
| XVIII | 57  | Cadmium carbonate*  | 513-78-0                  | 0.005  |



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#### Full list of tested SVHC:

| Batch | No. | Substance Name       | CAS No.    | RL (%) |
|-------|-----|----------------------|------------|--------|
| XVIII | 58  | Cadmium hydroxide*   | 21041-95-2 | 0.005  |
| XIX   | 59  | Disodium octaborate* | 12008-41-2 | 0.005  |
| XIX   | 60  | Lead*                | 7439-92-1  | 0.005  |



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Chemical Laboratory

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## Test Report (SVHC)

No. TSNEC1900296701

Date: 06 Mar 2019

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### ATTACHMENT:

#### OTHER MODEL NO.:

(XG)SWRCH6-22A、 (XG) SWRCH6AB-22AB、 SWRCH6ATi、 SWRCH18AB-THA、  
SWRCH22A + Ti、 SWRCH22A -Ti、 GSWRCH6A-A( A1)、 GSWRCH10A/15A/18A/22A-B、  
QSWRCH8A/10A/15A/18A/22A-B、 QSWRCH18AB-B、 (XG)SWRCH10-45K、 GSWRCH35K、  
XGSWRCH45KB、 XGSWRCH45KCr、 GSWRCH35K-1、 GSWRCH35KM、 GSWRCH35K-B、  
GSWRCH40K、 SWRCH40K-1(QSWRCH40K-C)、 QSWRCH35K-B、 QSWRCH45K-B、  
10B21-38、 10B33-FY、 10B21Cr-33Cr、 15B25、 51B20、 SAE10B21、 SWRCH10B21、  
SAE10B35、 XG10B21-38、 XG10B33M、 XG15B21、 XG15B25、 G10B21-C、 Q10B21-C、  
Q10B21-DW、 Q10B23M-C、 QSAE10B35-B、 (XG)ML20Cr、 GML20Cr、 GML20Cr-B、  
QML20Cr-B、 QML20Cr-DF、 (XG)ML40Cr、 GML40Cr、 GML40Cr-A/B、 QML40Cr-B、  
SCM420/435/440、 SCM435-M、 GSCM420/435/440-C、 QSCM435/440-C、 15-35CrMo、  
ML42CrMo(A)、 S15C-45C、 XGS15C-45C、 S45CB、 S45CMOD、 XGS45C-JC、 XGS45CB、  
GS25C/35C/45C-A、 GS25C/35C/45C-B、 ML08Al、 ML15Al、 XGML08Al、 ML35、  
(XG)ML20MnTiB、 QML20MnTiB-B、 SAE1008-1018、 SAE1006B-1018B、  
SAE1006/1008/1010/1018-Ti、 QSAE1018-B、 QSAE8640-B、 (XG) 35ACR、  
WRCH7A (Q40ACR-C) 、 D106BT、 D108BT、 C4/8/10C、 C8C、 C10C、 1215、 1215MS-1、  
20CrMnTi、 30CrMnTi、 (Q)ML45Mn2、 M8、 M10、 LY1、 LY、 CH1T、 CH1A、 XGM6-1/2/PB、  
XG295NH、 G295NH、 XG835NH、 50BV30、 SAE6150、 B7、 16MnCr5、 20MnB4、 30MnVS6、  
40CrMoV、 40CrMoV4-6、 C15E2CM、 G33B2-B、 MnB120H、 MnB123H、 QSt32-3、 Cq15、  
Q17Cr3-B、 Q37MnB5、 Q15MnVB-A、 35VB、 SCr420B、 SCr4440、 GSWRH67B、 FT8、 FT9、  
Q85Mn、 GCr15、 GCr15-A、 GCr15-DH、 GCr15-Y、 GCr15-L、 GCr15-ZWZ、 GCr15-LX、  
GCr15-LX1、 QGCr15、 XGLX82A、 XGLX72A-1、 XGLX72B、 55SiCrA-1、 55SiCrA、 60Si2MnA、  
60Si2CrA、 SWRS82B、 XGSWRCH35K、 XGSCM435



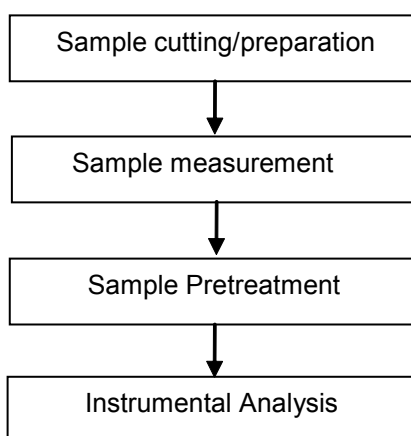
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## ATTACHMENTS

### SVHC Testing Flow Chart



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Sample photo:



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