

# Test Report

Report No.: A001R20170524008-6

Date: May 26, 2017

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## Report on the submitted samples said to be:

Sample Name Steel strip  
Material 60# Steel

Sample Received Date May 24, 2017  
Testing Period May 24, 2017 to May 27, 2017

**Test Requested:** As specified by client, refer to EU Regulation (EC) No 1907/2006 (REACH), to screen sixty-six (66) Substances of Very High Concern (SVHC) of metal in the submitted sample. The list is the one that is published by European Chemicals Administration (ECHA) on 17<sup>th</sup>.Dec, 2014.

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

## Conclusion:

The concentrations of tested SVHC are  $\leq 0.1\%$ (W/W) in the submitted sample.

Pass

Tested by: Huixu Luo

Luohuixu

Test Engineer

Reviewed by: Leon

Suhongliang, Leon

Test Team Leader

Approved by: Jason

Jiangyuncheng, Jason

Laboratory Manager



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**Test Results of Metal:**
**Substance information & Method & Result(s):**
**Unit:** %

No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.	Result(s)	Report Limit
					1	
First batch						
1	Lead hydrogen arsenate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7784-40-9	232-064-2	N.D.	0.01
2	Triethyl arsenate*		15606-95-8	427-700-2	N.D.	0.01
3	Diarsenic pentaoxide *		1303-28-2	215-116-9	N.D.	0.01
4	Diarsenic trioxide*		1327-53-3	215-481-4	N.D.	0.01
5	Cobalt dichloride*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 &EN14582:2016 ICP-OES &IC	7646-79-9	231-589-4	N.D.	0.01
6	Sodium dichromate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7789-12-0 10588-01-9	234-190-3	N.D.	0.01
Second batch						
7	<sup>②</sup> Lead chromate	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7758-97-6	231-846-0	N.D.	0.01
8	<sup>②</sup> Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ***		12656-85-8	235-759-9	N.D.	0.01
9	<sup>②</sup> Lead sulfochromate yellow (C.I. Pigment Yellow 34)		1344-37-2	215-693-7	N.D.	0.01

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**Substance information & Method & Result(s) :**

Unit: %

No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.	Result(s)	Report Limit
					1	
Third batch						
10	Boric acid*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	0.01
11	Disodium tetraborate, anhydrous*		1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.	0.01
12	Tetraboron disodium heptaoxide, hydrate*		12267-73-1	235-541-3	N.D.	0.01
13	Sodium chromate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES&UV-Vis	7775-11-3	231-889-5	N.D.	0.01
14	Potassium chromate*		7789-00-6	232-140-5	N.D.	0.01
15	Ammonium dichromate*		7789-09-5	232-143-1	N.D.	0.01
16	Potassium dichromate*		7778-50-9	231-906-6	N.D.	0.01
Fourth batch						
17	Chromium trioxide*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES&UV-Vis	1333-82-0	215-607-8	N.D.	0.01
18	Cobalt(II) diacetate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	71-48-7	200-755-8	N.D.	0.01
19	Cobalt(II) carbonate*		513-79-1	208-169-4	N.D.	0.01
20	Cobalt(II) dinitrate*		10141-05-6	233-402-1	N.D.	0.01
21	Cobalt(II) sulphate*		10124-43-3	233-334-2	N.D.	0.01
22	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid*, Dichromic acid*, Oligomers of chromic acid and dichromic acid*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7738-94-5 13530-68-2	231-801-5 236-881-5	N.D.	0.01

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**Substance information & Method & Result(s) :**

Unit: %

No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.	Result(s)	Report Limit
					1	
Fifth batch						
23	Strontium chromate *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7789-06-2	232-142-6	N.D.	0.01
Sixth batch						
24	Dichromium tris(chromate) *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	24613-89-6	246-356-2	N.D.	0.01
25	Potassium hydroxyoctaoxodizincate di-chromate*		11103-86-9	234-329-8	N.D.	0.01
26	Pentazinc chromate octahydroxide ***		49663-84-5	256-418-0	N.D.	0.01
27	Arsenic acid*		7778-39-4	231-901-9	N.D.	0.01
28	Calcium arsenate*		7778-44-1	231-904-5	N.D.	0.01
29	Trilead diarsenate*		3687-31-8	222-979-5	N.D.	0.01
30	Lead azide; Lead diazide*		13424-46-9	236-542-1	N.D.	0.01
31	Lead styphnate*		15245-44-0	239-290-0	N.D.	0.01
32	Lead dipicrate*		6477-64-1	229-335-2	N.D.	0.01
33	②Aluminosilicate Refractory Ceramic Fibres (RCF)		-	-	N.D.	0.01
34	②Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	-	N.D.	0.01	
Seventh batch						
35	Diboron trioxide*	EPA3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	1303-86-2	215-125-8	N.D.	0.01
36	Lead(II)bis(methanesulfonate)*		17570-76-2	401-750-5	N.D.	0.01

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**Substance information & Method & Result(s) :**

Unit: %

No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.	Result(s)	Report Limit
					1	
Eighth batch						
37	Acetic acid, lead salt, basic*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	51404-69-4	257-175-3	N.D.	0.01
38	Trilead bis(carbonate) dihydroxide*		1319-46-6	215-290-6	N.D.	0.01
39	Lead oxide sulfate*		12036-76-9	234-853-7	N.D.	0.01
40	[Phthalato(2-)]dioxotrilead *		69011-06-9	273-688-5	N.D.	0.01
41	Dioxobis(stearato)trilead *		12578-12-0	235-702-8	N.D.	0.01
42	Fatty acids, C16-18, lead salts*		91031-62-8	292-966-7	N.D.	0.01
43	Lead bis(tetrafluoroborate)*		13814-96-5	237-486-0	N.D.	0.01
44	Lead cyanamidate*		20837-86-9	244-073-9	N.D.	0.01
45	Lead dinitrate*		10099-74-8	233-245-9	N.D.	0.01
46	Lead oxide (lead monoxide)*		1317-36-8	215-267-0	N.D.	0.01
47	Lead tetroxide (orange lead)*		1314-41-6	215-235-6	N.D.	0.01
48	Lead titanium trioxide*		12060-00-3	235-038-9	N.D.	0.01
49	Lead Titanium Zirconium Oxide*		12626-81-2	235-727-4	N.D.	0.01
50	<sup>②</sup> Pentalead tetraoxide sulphate*		12065-90-6	235-067-7	N.D.	0.01
51	<sup>②</sup> Pyrochlore, antimony lead yellow *		8012-00-8	232-382-1	N.D.	0.01
52	<sup>②</sup> Silicic acid, barium salt, lead-doped*		68784-75-8	272-271-5	N.D.	0.01
53	Silicic acid, lead salt*		11120-22-2	234-363-3	N.D.	0.01
54	Sulfurous acid, lead salt, dibasic*		62229-08-7	263-467-1	N.D.	0.01
55	Tetraethyllead*	78-00-2	201-075-4	N.D.	0.01	
56	Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	0.01	
57	Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	0.01	

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**Substance information & Method & Result(s) :**

Unit: %

No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.	Result(s)	Report Limit
					1	
Ninth batch						
58	Cadmium	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7440-43-9	231-152-8	N.D.	0.01
59	Cadmium oxide*		1306-19-0	215-146-2	N.D.	0.01
Tenth batch						
60	Cadmium sulphide *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	1306-23-6	215-147-8	N.D.	0.01
61	Lead di(acetate) *		301-04-2	206-104-4	N.D.	0.01
Eleventh batch						
62	Cadmium chloride*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	10108-64-2	233-296-7	N.D.	0.01
63	Sodium perborate; perboric acid, sodium salt*		-	239-172-9 234-390-0	N.D.	0.01
64	Sodium peroxometaborate*		7632-04-4	231-556-4	N.D.	0.01
Twelfth batch						
65	Cadmium fluoride*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7790-79-6	232-222-0	N.D.	0.01
66	Cadmium sulphate*		10124-36-4 31119-53-6	233-331-6	N.D.	0.01

- Remarks:**
- 1.If a SVHC found over 0.1%, 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.
  2. According to the specified scope and analytical technique concentrations of all 66 SVHC are less than 0.1% in the submitted sample(s).

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**Note:** - N.D.=Not Detected (<report limit)

-0.1%=1000mg/kg

-\*: Inorganic SVHC compounds are obtained by converting the test results of cobalt, chloride, sodium, arsenic, chromium, potassium, lead, boron, zirconium, titanium, tin, phosphorus, calcium, zinc, strontium, molybdenum, aluminum and cadmium elements, and confirmed through the appropriate solvent extraction. At the same time, customers are suggested to check the chemical formula table, to further confirm whether above materials are contained.

-\*\*: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation(EC) No 1272/2008).

-\*\*\*: C.I.:Colour Index

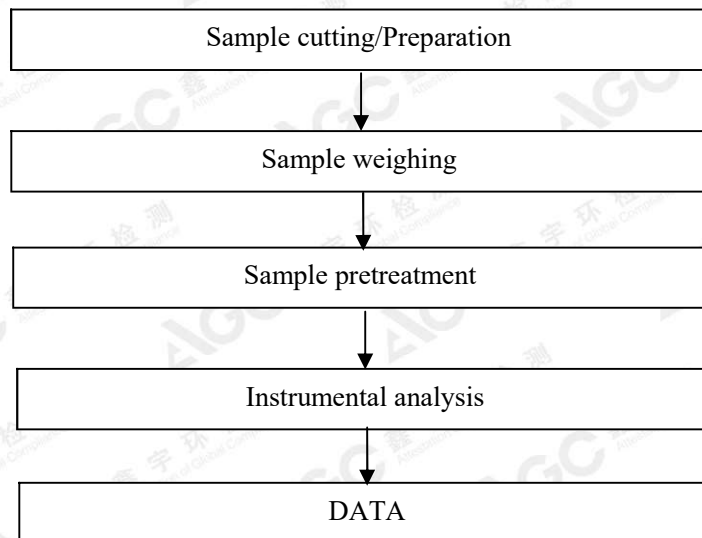
-\*\*\*\*: Light fractions from distillation

-①: In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.

**Sample Description:**

1	Steel strip
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**Test Flow Chart**


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## The photo of the sample



AGC authenticate the photo on original report only  
\*\*\* End of Report\*\*\*

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**Attestation of Global Compliance**

**No.16 C**

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