



Test Report

No.: S251013046001-1

Date: Oct 16, 2025

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Customer: SHENZHOU CITY SHENGSEN METAL PRODUCTS CO., LTD

Customer Address: EAST OF BAOHENG ROAD, ZHAOBAZHUANG VILLAGE, TANGFENG TOWN, HENGSHUI CITY, Hebei Province, China

Sample Name: Guardrail

The above samples and information are provided by the customer

Sample Received Date: Oct 13, 2025

Test Period: Oct 13, 2025 to Oct 16, 2025

Test Requirements: The submitted sample(s) were specifically tested according to European Chemical Agency (ECHA) regarding regulation (EC) No 1907/2006 concerning the REACH by client's requirements.

Test Method: Test requirements.

Test Result: Please refer to next page(s)

Result Summary:

Test Requested	Conclusion
1. As specified by client, SVHC screening is performed according to: Seventy-three (73) Substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemical Agency (ECHA) on and before Jun 25, 2025 published by European Chemical Agency (ECHA) regarding regulation (EC) No 1907/2006 concerning the REACH. According to the specified scope and analytical techniques, concentrations of SVHC(73 SVHC) are less than 0.1%(w/w) in the sample.	PASS

WRITTEN BY

Zoey Zhang

Zoey Zhang

REVIEWED BY

Sunshine Liu

Sunshine Liu

**Soar Testing Certification
(GuangDong) Co., Ltd.**

APPROVED BY



Approved signatory

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Lab name: Soar Testing Certification (GuangDong) Co., Ltd.
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E-mail: service@soar-cert.com

Website: http://www.soar-testlab.com

**Test Result(s):****Description of test sample:**

Sample No.	Item / Component Description(s)	Location(s)	Style(s) / Model(s)
1	Metal substrate	Refer to photo	/

Note: "/"= Customer does not provide.

Test method: Refer to in-house method for sample pretreatment, analysis was performed by ICP-OES and UV-Vis,

1. As specified by client, SVHC screening is performed according to: Seventy-three (73) Substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemical Agency (ECHA) on and before Jun 25, 2025 published by European Chemical Agency (ECHA) regarding regulation (EC) No 1907/2006 concerning the REACH. According to the specified scope and analytical techniques, concentrations of SVHC(73 SVHC) are less than 0.1%(w/w) in the sample.

Chemical Substance	Unit	Result
		No.1
All Tested 73 SVHCs in Chemical List**	%(w/w)	N.D.

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**73 SVHCs Chemical List**

No.	Chemical Substance Name(s)	CAS No.	EC No.	RL%
First batch				
1	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.010
2	Triethyl arsenate**	15606-95-8	427-700-2	0.010
3	Diarsenic pentaoxide **	1303-28-2	215-116-9	0.010
4	Diarsenic trioxide**	1327-53-3	215-481-4	0.010
5	Cobalt dichloride**	7646-79-9	231-589-4	0.010
6	Sodium dichromate**	7789-12-0 10588-01-9	234-190-3	0.010
Second batch				
7	Lead chromate**	7758-97-6	231-846-0	0.010
8	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.010
9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)**	1344-37-2	215-693-7	0.010
Third batch				
10	Boric acid**	10043-35-3 11113-50-1	233-139-2 234-343-4	0.010
11	Disodium tetraborate, anhydrous**	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.010
12	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.010
13	Sodium chromate**	7775-11-3	231-889-5	0.010
14	Potassium chromate**	7789-00-6	232-140-5	0.010
15	Ammonium dichromate**	7789-09-5	232-143-1	0.010
16	Potassium dichromate**	7778-50-9	231-906-6	0.010

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No.	Chemical Substance Name(s)		CAS No.	EC No.	RL%
Fourth batch					
17	Chromium trioxide**		1333-82-0	215-607-8	0.010
18	Cobalt(II) diacetate**		71-48-7	200-755-8	0.010
19	Cobalt(II) carbonate**		513-79-1	208-169-4	0.010
20	Cobalt(II) dinitrate**		10141-05-6	233-402-1	0.010
21	Cobalt(II) sulphate**		10124-43-3	233-334-2	0.010
22	Acids generated from chromium trioxide and their oligomers Group containing:	Chromic acid**	7738-94-5	231-801-5	0.010
		Dichromic acid**	13530-68-2	236-881-5	0.010
		Oligomers of chromic acid and dichromic acid**	-	-	0.010
Fifth batch					
23	Strontium chromate **		7789-06-2	232-142-6	0.010
Sixth batch					
24	Dichromium tris(chromate) **		24613-89-6	246-356-2	0.010
25	Potassium hydroxyoctaoxodizincate di-chromate**		11103-86-9	234-329-8	0.010
26	Pentazinc chromate octahydroxide **		49663-84-5	256-418-0	0.010
27	Arsenic acid**		7778-39-4	231-901-9	0.010
28	Calcium arsenate**		7778-44-1	231-904-5	0.010
29	Trilead diarsenate**		3687-31-8	222-979-5	0.010
30	Lead azide; Lead diazide**		13424-46-9	236-542-1	0.010
31	Lead styphnate**		15245-44-0	239-290-0	0.010

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No.	Chemical Substance Name(s)	CAS No.	EC No.	RL%
32	Lead dipicrate**	6477-64-1	229-335-2	0.010
33	Aluminosilicate Refractory Ceramic Fibres (RCF)**	-	-	0.010
34	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	-	-	0.010
Seventh batch				
35	Diboron trioxide**	1303-86-2	215-125-8	0.010
36	Lead(II)bis(methanesulfonate)**	17570-76-2	401-750-5	0.010
Eighth batch				
37	Acetic acid, lead salt, basic**	51404-69-4	257-175-3	0.010
38	Trilead bis(carbonate) dihydroxide**	1319-46-6	215-290-6	0.010
39	Lead oxide sulfate**	12036-76-9	234-853-7	0.010
40	[Phthalato(2-)]dioxotrilead **	69011-06-9	273-688-5	0.010
41	Dioxobis(stearato)trilead**	12578-12-0	235-702-8	0.010
42	Fatty acids, C16-18, lead salts**	91031-62-8	292-966-7	0.010
43	Lead bis(tetrafluoroborate)**	13814-96-5	237-486-0	0.010
44	Lead cyanamidate**	20837-86-9	244-073-9	0.010
45	Lead dinitrate**	10099-74-8	233-245-9	0.010
46	Lead oxide (lead monoxide)**	1317-36-8	215-267-0	0.010
47	Lead tetroxide (orange lead)**	1314-41-6	215-235-6	0.010
48	Lead titanium trioxide**	12060-00-3	235-038-9	0.010
49	Lead Titanium Zirconium Oxide**	12626-81-2	235-727-4	0.010

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No.	Chemical Substance Name(s)	CAS No.	EC No.	RL%
50	Pentalead tetraoxide sulphate**	12065-90-6	235-067-7	0.010
51	Pyrochlore, antimony lead yellow **	8012-00-8	232-382-1	0.010
52	Silicic acid, barium salt, lead-doped**	68784-75-8	272-271-5	0.010
53	Silicic acid, lead salt**	11120-22-2	234-363-3	0.010
54	Sulfurous acid, lead salt, dibasic**	62229-08-7	263-467-1	0.010
55	Tetraethyllead**	78-00-2	201-075-4	0.010
56	Tetralead trioxide sulphate**	12202-17-4	235-380-9	0.010
57	Trilead dioxide phosphonate**	12141-20-7	235-252-2	0.010
Ninth batch				
58	Cadmium**	7440-43-9	231-152-8	0.010
59	Cadmium oxide**	1306-19-0	215-146-2	0.010
Tenth batch				
60	Cadmium sulphide**	1306-23-6	215-147-8	0.010
61	Lead di(acetate)**	301-04-2	206-104-4	0.010
Eleventh batch				
62	Cadmium chloride**	10108-64-2	233-296-7	0.010
63	Sodium perborate; perboric acid, sodium salt**	-	239-172-9 234-390-0	0.010
64	Sodium peroxometaborate**	7632-04-4	231-556-4	0.010
Twelfth batch				
65	Cadmium fluoride**	7790-79-6	232-222-0	0.010

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No.	Chemical Substance Name(s)	CAS No.	EC No.	RL%
66	Cadmium sulphate**	10124-36-4 31119-53-6	233-331-6	0.010
Eighteenth batch				
67	Cadmium nitrate**	10325-94-7	233-710-6	0.010
68	Cadmium carbonate**	513-78-0	208-168-9	0.010
69	Cadmium hydroxide**	21041-95-2	244-168-5	0.010
Nineteenth batch				
70	Disodium octaborate**	12008-41-2	234-541-0	0.010
71	Lead**	7439-92-1	231-100-4	0.010
Twenty-Fifth batch				
72	Orthoboric acid, sodium salt**	13840-56-7	237-560-2	0.010
Twenty-Eighth batch				
73	Barium diboron tetraoxide**	13701-59-2	237-222-4	0.010

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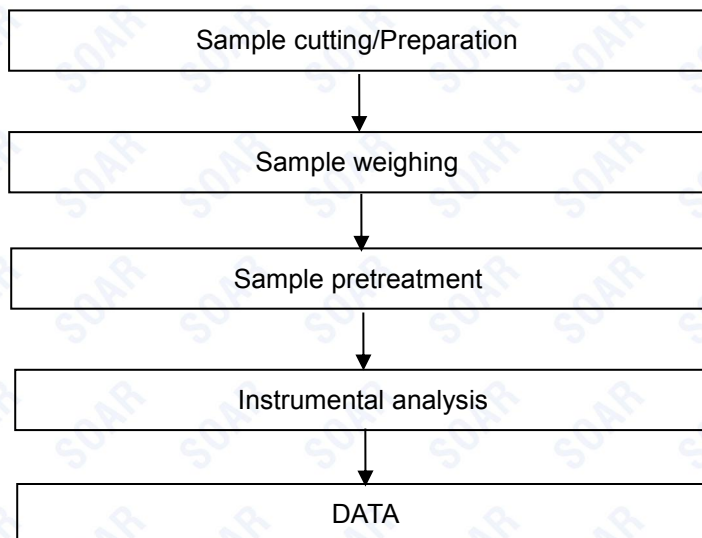
Note:

1. SVHC = Substances of Very High Concern
2. % = percentage by weight
3. N.D. = Not Detected (<Report Limit)
4. RL = Report Limit
5. ** According to the 5.2.1 item of the fourth version of ECHA "Guidance on requirements for substances in articles", 2017, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the fourth version of ECHA "Guidance on requirements for substances in articles", 2017.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify the European Chemicals Agency(ECHA), In accordance with Article 59(1) of the Regulation if:
-the substance is present in those articles in quantities totaling over one ton per producer or importer per year;
-the substance is present in those articles above a concentration of 0.1% weight by weight(w/w).
9. 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 (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.

Remark:

1. As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.
2. The test report cannot be partially quoted or copied, without prior written permission of the company.
3. The test report is invalid if rewritten, added and deleted, without approved signature, or shall be invalid if it is not stamped with the special seal for testing.
4. The customer information, sample information, usage conditions and label information mentioned in the testing report are provided by the customer, and the customer is responsible for their authenticity. SOAR has not verified their authenticity.
5. The test report is not stamped with the qualification certification mark seal, only for customer research, teaching, internal quality control, product development and other activities.

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REACH Test Flow Chart

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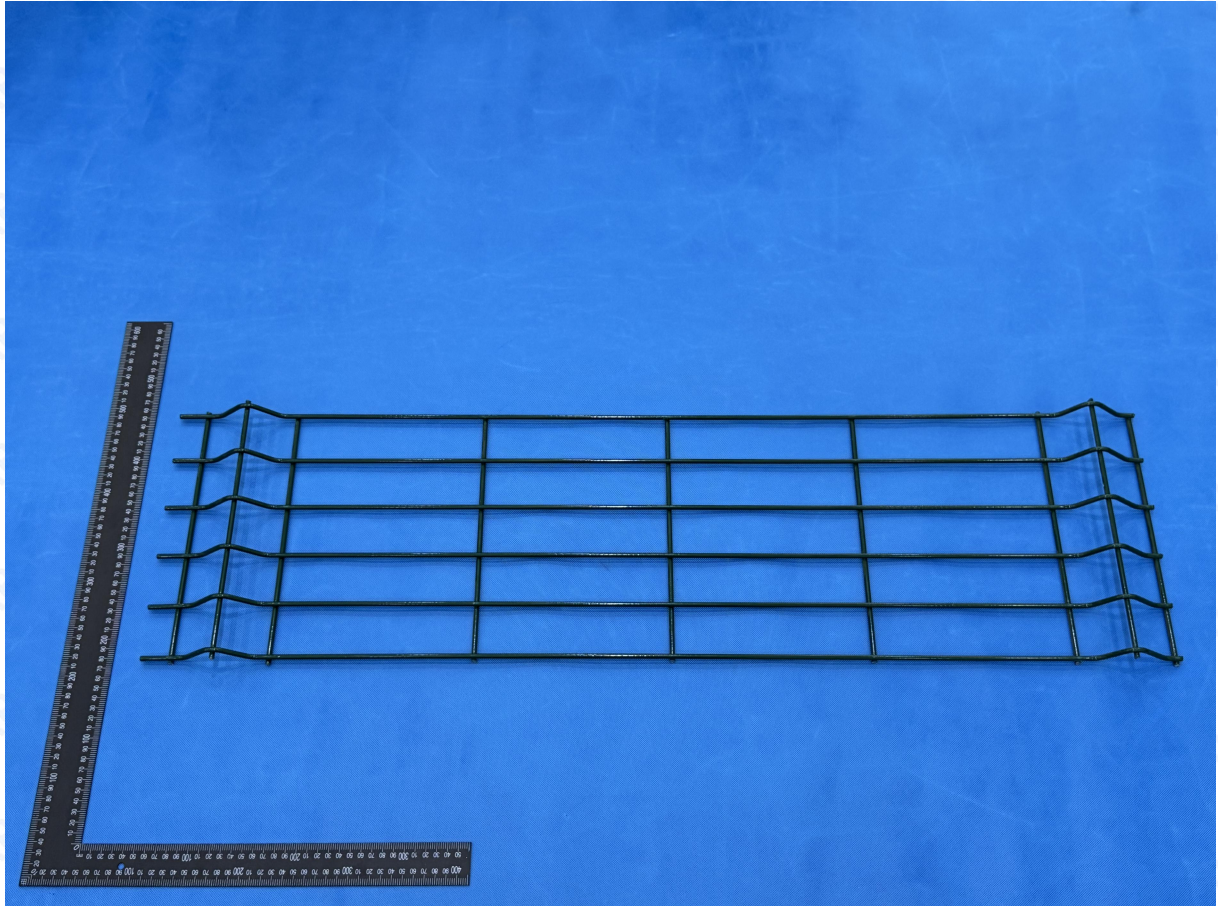
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Photo of the Sample:

Test sample



The photo is for use with SOAR original report only.

*** End of Report ***

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