



Test Report

No. TSNEC1300355401

Date: 19 Apr 2013

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TANGSHAN IRON&STEEL GROUP CO.,LTD

NO.9 BINHE ROAD,LU BEI AREA,TANGSHAN,HEBEI PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : PIC LING
HOT ROLLED STEEL STRIP

SGS order No. : TP13 001 3 T

main Substance : C: 0.10 Mn :0.4 Si: 0.1

order No. : SPHC

Date of Sample Receipt : 1 Apr 2013

Testing Period : 1 Apr 2013 - 19 Apr 2013

Test Request : Select test(s) as requested client.

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

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted samples, the results of Lead, Cadmium, Hexavalent Chromium, Polychlorinated Biphenyls (PCBs), Polychlorinated Biphenyl Ethers (PBDE) comply with the limits as set by RoHS Directive 2011/ 5/EU Annex II restricting 2002/95/EC.

Signature on behalf of
SGS CSTC Ltd.

Summer Bai

Approve Signator



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	TSN13 003554.001	sil er gra metal oar

Remarks :

- (1) 1 mg/ g 0.0001
- (2) DL etho Detection Limit
- (3) ND Not Detected (DL)
- (4) Not Regulate

RoHS Directive 2011/ 5/EU

Test etho : ith reference to IEC 2321:200

- (1) Determination of Calcium ICP OES.
- (2) Determination of Lead ICP OES.
- (3) Determination of Mercury ICP OES.
- (4) Determination of Hexavalent Chromium Spot test / Colorimetric etho using UV Vis.
- (5) Determination of PBBs / PBDEs GC S.

Test Item(s)	Limit	Unit	DL	001
Calcium (C)	100	mg/ g	2	ND
Lead (P)	1000	mg/ g	2	ND
Mercury (Hg)	1000	mg/ g	2	ND
Hexavalent Chromium (Cr(VI))				Negative
Sum of PBBs	1000	mg/ g		ND
Monobromophenyl		mg/ g	5	ND
Dibromophenyl		mg/ g	5	ND
Tribromophenyl		mg/ g	5	ND
Tetrabromophenyl		mg/ g	5	ND
Pentabromophenyl		mg/ g	5	ND
Hexabromophenyl		mg/ g	5	ND
Heptabromophenyl		mg/ g	5	ND
Octabromophenyl		mg/ g	5	ND
Nonabromophenyl		mg/ g	5	ND
Decabromophenyl		mg/ g	5	ND
Sum of PBDEs	1000	mg/ g		ND
Monobromophenyl ether		mg/ g	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>DL</u>	<u>001</u>
Di romo iphen I ether		mg/ g	5	ND
Tri romo iphen I ether		mg/ g	5	ND
Tetra romo iphen I ether		mg/ g	5	ND
Penta romo iphen I ether		mg/ g	5	ND
He a romo iphen I ether		mg/ g	5	ND
Hepta romo iphen I ether		mg/ g	5	ND
O ta romo iphen I ether		mg/ g	5	ND
Nona romo iphen I ether		mg/ g	5	ND
De a romo iphen I ether		mg/ g	5	ND

Notes :

(1) The maximum permissible limit is quoted from Directive 2011/ 5/EU, Annex II.

(2) Spot test:

Negative Absence of Cr(VI) coating, Positive Presence of Cr(VI) coating

(The test sample should be further verified by oiling water extraction method if the spot test result is Negative or cannot be confirmed.)

Boiling water extraction:

Negative Absence of Cr(VI) coating

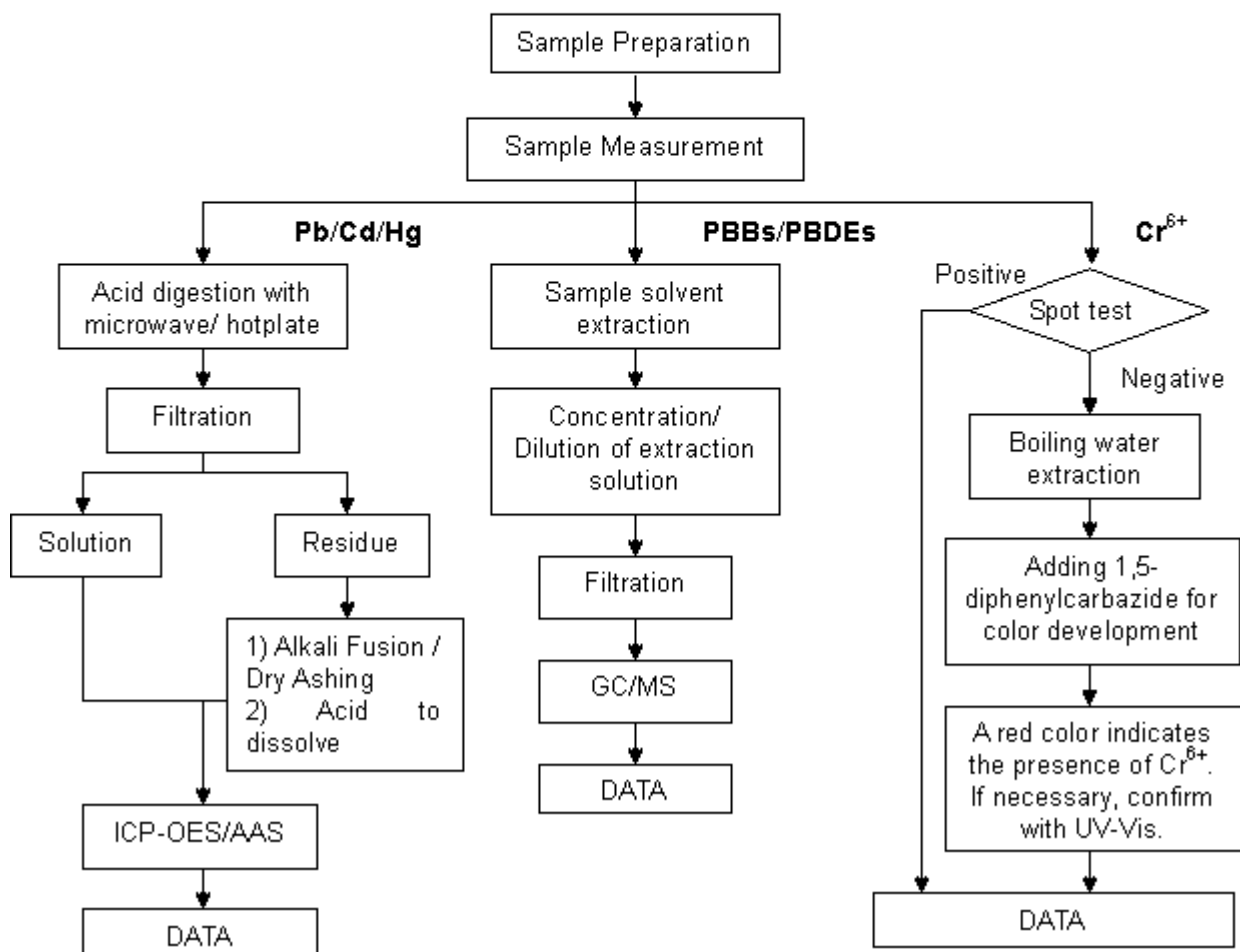
Positive Presence of Cr(VI) coating the detection concentration in oiling water extraction solution is equal or greater than 0.02 mg/ g with 50 mm sample surface area.

Information on storage conditions and production date of the test sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

ATTACHMENTS

Cd/Pb/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Aaron Wang/Jason Li/Angell Yao
- 2) Name of the person in charge of testing: Cindy Yin/Rex Zhu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded)





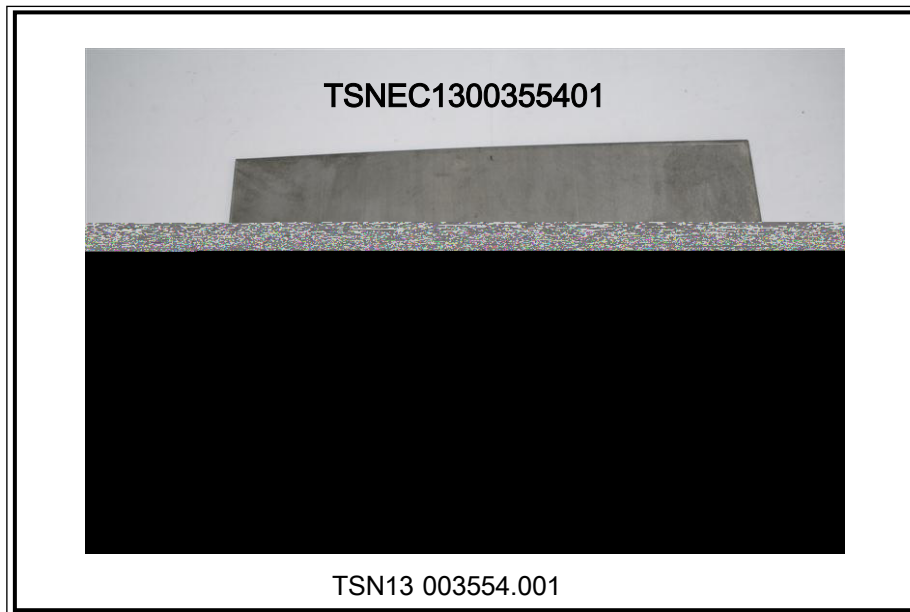
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Sample photo:



SGS authenticates the photo on original report only

End of Report