

Test Report

No. CTSSA/17634/14

CTS Ref. CTSSA/14/2526/CSC

Date: 12/09/2014 Page: 1 of 5

CSC STEEL SDN BHD (228899-P) 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH 75450 MELAKA, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Cold-Rolled Steel

Sample Receiving Date : 08/09/2014

Testing Period : 08/09/2014 to 12/09/2014

Test Requested : Selected test(s) as requested by client

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

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

Analysts : Loh Mei Theng & Tay Siam Pine

SGS (MALAYSIA) SDN. BHD.

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Test results:

Test Part Description:

Sample Description : Cold-Rolled Steel

RoHS Directive 2011/65/EU Annex II

| Test Item(s): | Unit | Test Method | Results | MDL | Limit |
|----------------------------|-------|---|---------|-----|-------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES) | N.D. | 2 | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES) | N.D. | 2 | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES) | N.D. | 2 | 1000 |
| Hexavalent Chromium (CrVI) | mg/kg | With reference to JIS H 8625, and performed by UV-VIS Spectrophotometry | N.D. | 2 | 1000 |
| Sum of PBBs | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | - | 1000 |
| Monobromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Tribromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Hexabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Octabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Nonabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321:2008 (Determination of PBB by GC-MS) | N.D. | 5 | - |

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| Sum of PBDEs | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | - | 1000 |
|--------------------------|-------|--|------|---|------|
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Dibromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | 1 |
| Tribromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Hexabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | ı |
| Octabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | ı |
| Nonabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321:2008 (Determination of PBDE by GC-MS) | N.D. | 5 | - |

Note: (a) mg/kg = ppm; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

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Date: 12/09/2014

Test Part Description:

Sample Description : Cold-Rolled Steel

CTSSA/17634/14

CSC STEEL SDN BHD

SGS authenticate the photo on original report only

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1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.1-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

4. DETERMINATION OF HEXAVALENT CHROMIUM **BY JIS H 8625**

Sample Preparation

Hot water extraction

Add colour-developing reagent

Let stand for 5-10 min

Analyses by UV- Spectrophotometer (540 nm)

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321 2008

Cut sample in small pieces

Weight sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter

Analyses by GC-MS (with appropriate dilution)

**** End of Report ****

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