



Test Report No. F690501/LF-CTSAYAA08-28402

Issued Date: October 24, 2008 Page 1 of 3

To: **DONGBU STEEL CO.,LTD.**
890-10
Daechi-dong
Gangnam-gu
SEOUL
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

Product Name : CR (SPCC 1/2HARD)

SGS File No. : AYAA08-28402

Received Date : October 17, 2008

Test Performing Date : October 20, 2008

Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results

Test Requested : Sixteen (16) Substances of Very High Concern (SVHC)
Based on the list published by European Chemicals Agency (ECHA) on 2008 July 4 for
public consultation, regarding Regulation (EC) No 1907/2006 concerning the REACH.

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

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

SGS Testing Korea Co., Ltd.

Pluto Kim
Jinee Song
Billy Oh/Testing Person

Jeff Jang / Technical Mgr

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Test result(s)

Test Item(s):	Unit	Test Method	MDL	Results
Anthracene (CAS No.: 000120-12-7)	mg/kg	With reference to ZEK 01.1-08, analyzed by GC-MS	0.2	N.D.
4,4'-Diaminodiphenylmethane (CAS No.: 000101-77-9)	mg/kg	With reference to EN14362-1:2003, analyzed by GC-MS	20	N.D.
Dibutyl phthalate (DBP) (CAS No.: 000084-74-2)	mg/kg	With reference to EN 14372: 2004, analyzed by GC-MS	30	N.D.
Cyclododecane (CAS No.: 000294-62-2)	mg/kg	With reference to EPA 3550C: 1996, analyzed by GC-MS	5	N.D.
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) (CAS No.: 000081-15-2)	mg/kg	With reference to EPA 3550C:1996, analyzed by GC-MS	10	N.D.
Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No.: 000117-81-7)	mg/kg	With reference to EN 14372: 2004, analyzed by GC-MS	30	N.D.
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to EPA 3540C: 1996, analyzed by GC-MS	5	N.D.
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	mg/kg	With reference to EPA 3540C: 1996, analyzed by GC-MS	100	N.D.
Benzyl butyl phthalate (BBP) (CAS No.: 000085-68-7)	mg/kg	With reference to EN 14372:2004, analyzed by GC-MS	30	N.D.
Bis(tributyltin)oxide *** (CAS No.: 000056-35-9)	mg/kg	With reference to BS ISO 17353: 2004, analyzed by GC-MS	30	N.D.
Cobalt dichloride *** (Cobalt) (CAS No.: 007646-79-9)	mg/kg	With reference to EPA 3052: 1996, analyzed by ICP-AES	2	51.2(23.2)
Diarsenic pentaoxide *** (CAS No.: 001303-28-2)	mg/kg	With reference to EPA 3052: 1996, analyzed by ICP-AES	10	N.D.
Diarsenic trioxide *** (CAS No.: 001327-53-3)	mg/kg		10	N.D.
Triethyl arsenate *** (CAS No.: 015606-95-8)	mg/kg		10	N.D.
Lead hydrogen arsenate *** (CAS No.: 007784-40-9)	mg/kg	With reference to EPA 3052: 1996, analyzed by ICP-AES	10	N.D.
Sodium dichromate, dehydrate *** (CAS No.: 007789-12-0)	mg/kg	With reference to EPA 3060A:1996, analyzed by UV-Vis	2	N.D.

Test Part Description: CR (SPCC 1/2HARD)

PART NAME NO.1: CR (SPCC 1/2HARD)

Remark : (1) mg/kg = ppm ; 0.1wt% = 1000ppm

(2) MDL = Method Detection Limit.

(3) N.D.= not detected = below Method Detection Limit.

(4) *** : Calculated concentration of cobalt dichloride is based on the identified heavy metal and anion result. Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, sodium dichromate, dihydrate, lead hydrogen arsenate and triethyl arsenate are based on the identified heavy metal result. Identity of above metal substances present in the article has to be further confirmed.

Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tributyltin, TBT results. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is required if the exact amount of TBTO has to be determined.

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Picture of Sample as Received :


*** End of Report ***

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