

Test Report No. LPCI/03118(AD)/07 Date : 2007/03/02 Page: 1 of 3

CTS Ref. CTS/07/0805/Group Steel

GROUP STEEL CORPORATION (M) SDN. BHD. 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH, 75450 MELAKA.

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

Sample Description : Galvanizing Strip Thickness : 1.200mm (BMT)

Chromate : Yes

Sample Receiving Date : 2007/02/26

Testing Period : 2007/02/26 to 2007/03/02

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method : (1) With reference to EPA Method 3050B for Cadmium Content.

Analysis was performed by ICP

(2) With reference to EPA Method 3050B for Lead Content.

Analysis was performed by ICP

(3) With reference to EPA Method 3052 for Mercury Content.

Analysis was performed by ICP

(4) With reference to EPA Method 3060A & 7196A for Hexavalent

Chromium.

Analysis was performed by UV/Vis Spectrophotometry.

(5) With reference to EPA Method 3540C/3550B for PBB / PBDE

Content.

Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Hasimah Mohd Mokhtar & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



No. LPCI/03118(AD)/07 Date : 2007/03/02

CTS Ref. CTS/07/0805/Group Steel

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	ı
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

<u>Test Part Description</u>:

As per page 3

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Test Report No. LPCI/03118(AD)/07 Date: 2007/03/02 Page: 3 of 3

CTS Ref. CTS/07/0805/Group Steel

Test Part Description:

Sample Description : Galvanizing Strip Thickness : 1.200mm (BMT)

Chromate : Yes

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) This report supersedes report no. LPCI/03118/07

**** End of Report ****

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



Test Report No. LPCI/03119(AD)/07 Date: 2007/03/02 Page: 1 of 3

CTS Ref. CTS/07/0805/Group Steel

GROUP STEEL CORPORATION (M) SDN. BHD. 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH, 75450 MELAKA.

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

Sample Description : Galvanizing Strip Thickness : 0.939mm (BMT)

Chromate : Yes

Sample Receiving Date : 2007/02/26

Testing Period : 2007/02/26 to 2007/03/02

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method : (1) With reference to EPA Method 3050B for Cadmium Content.

Analysis was performed by ICP

(2) With reference to EPA Method 3050B for Lead Content.

Analysis was performed by ICP

(3) With reference to EPA Method 3052 for Mercury Content.

Analysis was performed by ICP

(4) With reference to EPA Method 3060A & 7196A for Hexavalent

Chromium.

Analysis was performed by UV/Vis Spectrophotometry.

(5) With reference to EPA Method 3540C/3550B for PBB / PBDE

Content.

Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Hasimah Mohd Mokhtar & Jocelyn Christmas

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CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



No. LPCI/03119(AD)/07 Date : 2007/03/02

CTS Ref. CTS/07/0805/Group Steel

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	<u>MDL</u>
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

As per page 3

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Test Report No. LPCI/03119(AD)/07 Date : 2007/03/02 Page: 3 of 3

CTS Ref. CTS/07/0805/Group Steel

Test Part Description:

Sample Description : Galvanizing Strip Thickness : 0.939mm (BMT)

Chromate : Yes

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) This report supersedes report no. LPCI/03119/07

**** End of Report ****

SGS LABORATORY SERVICES (M) SDN. BHD.

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Test Report No. LPCI/03120(AD)/07 Date: 2007/03/02 Page: 1 of 3

CTS Ref. CTS/07/0805/Group Steel

GROUP STEEL CORPORATION (M) SDN. BHD. 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH, 75450 MELAKA.

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

Sample Description : Galvanizing Strip Thickness : 0.839mm (BMT)

Chromate : Yes

Sample Receiving Date : 2007/02/26

Testing Period : 2007/02/26 to 2007/03/02

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method : (1) With reference to EPA Method 3050B for Cadmium Content.

Analysis was performed by ICP

(2) With reference to EPA Method 3050B for Lead Content.

Analysis was performed by ICP

(3) With reference to EPA Method 3052 for Mercury Content.

Analysis was performed by ICP

(4) With reference to EPA Method 3060A & 7196A for Hexavalent

Chromium.

Analysis was performed by UV/Vis Spectrophotometry.

(5) With reference to EPA Method 3540C/3550B for PBB / PBDE

Content.

Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Hasimah Mohd Mokhtar & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



No. LPCI/03120(AD)/07 Date : 2007/03/02

CTS Ref. CTS/07/0805/Group Steel

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	<u>MDL</u>
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	ı
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	ı
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

As per page 3

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Test Report No. LPCI/03120(AD)/07 Date: 2007/03/02 Page: 3 of 3

CTS Ref. CTS/07/0805/Group Steel

Test Part Description:

Sample Description : Galvanizing Strip
Thickness : 0.839mm (BMT)

Chromate : Yes

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) This report supersedes report no. LPCI/03120/07

**** End of Report ****

SGS LABORATORY SERVICES (M) SDN. BHD.

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Test Report No. LPCI/03121(AD)/07 Date: 2007/03/02 Page: 1 of 3

CTS Ref. CTS/07/0805/Group Steel

GROUP STEEL CORPORATION (M) SDN. BHD. 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH, 75450 MELAKA.

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

Sample Description : Galvanizing Strip Thickness : 1.129mm (BMT)

Chromate : Yes

Sample Receiving Date : 2007/02/26

Testing Period : 2007/02/26 to 2007/03/02

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method : (1) With reference to EPA Method 3050B for Cadmium Content.

Analysis was performed by ICP

(2) With reference to EPA Method 3050B for Lead Content.

Analysis was performed by ICP

(3) With reference to EPA Method 3052 for Mercury Content.

Analysis was performed by ICP

(4) With reference to EPA Method 3060A & 7196A for Hexavalent

Chromium.

Analysis was performed by UV/Vis Spectrophotometry.

(5) With reference to EPA Method 3540C/3550B for PBB / PBDE

Content.

Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Hasimah Mohd Mokhtar & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



No. LPCI/03121(AD)/07

Date: 2007/03/02

Page: 2 of 3

CTS Ref. CTS/07/0805/Group Steel

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	<u>MDL</u>
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether]	N.D.	5
Heptabromodiphenyl ether]	N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

As per page 3

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



Test Report No. LPCI/03121(AD)/07 Date : 2007/03/02 Page: 3 of 3

CTS Ref. CTS/07/0805/Group Steel

Test Part Description:

Sample Description : Galvanizing Strip Thickness : 1.129mm (BMT)

Chromate : Yes

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) This report supersedes report no. LPCI/03121/07

**** End of Report ****

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



Test Report No. LPCI/03122(AD)/07 Date : 2007/03/02 Page: 1 of 3

CTS Ref. CTS/07/0805/Group Steel

GROUP STEEL CORPORATION (M) SDN. BHD. 180, KAWASAN INDUSTRI AYER KEROH, AYER KEROH, 75450 MELAKA.

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

Sample Description : Galvanizing Strip Thickness : 0.780mm (BMT)

Chromate : Yes

Sample Receiving Date : 2007/02/26

Testing Period : 2007/02/26 to 2007/03/02

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method : (1) With reference to EPA Method 3050B for Cadmium Content.

Analysis was performed by ICP

(2) With reference to EPA Method 3050B for Lead Content.

Analysis was performed by ICP

(3) With reference to EPA Method 3052 for Mercury Content.

Analysis was performed by ICP

(4) With reference to EPA Method 3060A & 7196A for Hexavalent

Chromium.

Analysis was performed by UV/Vis Spectrophotometry.

(5) With reference to EPA Method 3540C/3550B for PBB / PBDE

Content.

Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Hasimah Mohd Mokhtar & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER



No. LPCI/03122(AD)/07 Date : 2007/03/02

CTS Ref. CTS/07/0805/Group Steel

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	<u>MDL</u>
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)]	N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether] [N.D.	5
Heptabromodiphenyl ether] [N.D.	5
Octabromodiphenyl ether] [N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

As per page 3

SGS LABORATORY SERVICES (M) SDN. BHD.

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Test Report No. LPCI/03122(AD)/07 Date : 2007/03/02 Page: 3 of 3

CTS Ref. CTS/07/0805/Group Steel

Test Part Description:

Sample Description : Galvanizing Strip Thickness : 0.780mm (BMT)

Chromate : Yes

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) This report supersedes report no. LPCI/03122/07

**** End of Report ****

SGS LABORATORY SERVICES (M) SDN. BHD.

CHONG KIEN LEN B.Sc.(HONS) AMIC LAB MANAGER