



Test Report

S&T TECHNOLOGY CO., LTD.
8, MING LUNG RD., YANG MEI JEN, TAO YUAN,
TAIWAN 326, R. O. C.

Report No. : CE/2004/C3732
Date : 2004/12/28
Page : 1 of 5

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

Type of Product : BRASS/BRONZE/C194
Country of Origin : TAIWAN
Sample Received : 2004/12/21
Testing Date : 2004/12/21 TO 2004/12/28

=====
Test Result : - Please see the next page -


Daniel Yen, M.P., Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Result

PART NAME NO.1 : GOLDEN COLORED METAL (PLEASE REFER TO THE PHOTO ATTACHED)
 PART NAME NO.2 : COPPER METAL (PLEASE REFER TO THE PHOTO ATTACHED)
 PART NAME NO.3 : COPPER METAL (PLEASE REFER TO THE PHOTO ATTACHED)

PASS

Test Item (s):	Unit	Method	MDL	Result				Spec.
				No.1	No.2	No.3		
EN 71 PART 3 Heavy metal content		As per EN 71 PART 3 : 1994 (A1 : 2000) (EN 71 & BS 5665 are identical)						
Soluble Lead (Pb)	ppm	ICP-AES	5	<5.0	<5.0	<5.0		90
Soluble Antimony (Sb)	ppm	ICP-AES	5	<5.0	<5.0	<5.0		60
Soluble Arsenic (As)	ppm	ICP ALS	2.5	<2.5	<2.5	<2.5		25
Soluble Barium (Ba)	ppm	ICP ALS	10	<10.0	<10.0	<10.0		1000
Soluble Cadmium (Cd)	ppm	ICP-AES	5	<5.0	<5.0	<5.0		75
Soluble Chromium (Cr)	ppm	ICP-AES	5	<5.0	<5.0	<5.0		60
Soluble Mercury (Hg)	ppm	ICP ALS	5	<5.0	<5.0	<5.0		60
Soluble Selenium (Se)	ppm	ICP-AES	5	<5.0	<5.0	<5.0		500

Test Item (s):	Unit	Method	MDL	Result				Spec.
				No.1	No.2	No.3		
PBBs(Polybrominated biphenyls)(CAS NO:059536 63 1)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.		
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.	N.D.		-

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Test Item (s):	Unit	Method	MDL	Result			Spec.
				No.1	No.2	No.3	
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	N.D.	N.D.	
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.	N.D.	-
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	N.D.	N.D.	
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	19.3	16.0	11.1	-

- NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit
 (4) " - " = No Regulation

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Certificate Of Quality/검사증명서

Certificate No./증명서번호: 030814-KCSE-006-001

Date of Issue/발행일자:

Order No./계약번호: 0001594904

PO No./주문번호: GCR033HS-MY01

Supplier /주문자: HYOSUNG CORPORATION

Commodity/품명: COLD ROLLED STEEL SHEET IN COIL

Customer/고객사: GUANGZHOU MAYER METAL CO., LTD.

Spec & Type/규격: JIS G3141 SPCC-SD

Size/치수	Product No. 제품번호	Quantity 수량	Weight 중량 (kg)	Heat No. 재강번호	POSITION	Tensile/인장시험			Hard- ness /경도 HRB	Base Metal Brand	DIVISION	Chemical Composition/ 화학성분(%)				
						YP (N/mm ²)	TS (%)	EL (%)				C	Si	Mn	P	S
0.30x1219xC	EU6158A	1	8,220	A71564	T	270	363	42	50.8	Good	L	200	Tr	190	130	70
0.30x1219xC	EU6158B	1	8,220	A71564	T	270	363	42	50.8	Good	L	200	Tr	190	130	70
0.30x1219xC	EU6158C	1	7,860	A71564	T	270	363	42	50.8	Good	L	200	Tr	190	130	70
0.30x1219xC	EU6157A	1	8,190	A71571	T	263	357	41	50.0	Good	L	180	Tr	200	110	80
0.30x1219xC	EU6157B	1	8,190	A71571	T	263	357	41	50.0	Good	L	180	Tr	200	110	80
0.30x1219xC	EU6157C	1	7,810	A71571	T	263	357	41	50.0	Good	L	180	Tr	200	110	80
*** Sub Total (010)***			6			48,490 (kg)			< No	Veld >						
0.35x1219xC	EV0068A	1	7,590	A71564	T	265	361	42	49.8	Good	L	200	Tr	190	130	70
0.35x1219xC	EV0068B	1	7,580	A71564	T	265	361	42	49.8	Good	L	200	Tr	190	130	70
0.35x1219xC	EV0068C	1	7,210	A71564	T	265	361	42	49.8	Good	L	200	Tr	190	130	70
0.35x1219xC	EV0067A	1	8,030	A71571	T	237	348	42	48.7	Good	L	180	Tr	200	110	80
0.35x1219xC	EV0067B	1	8,030	A71571	T	237	348	42	48.7	Good	L	180	Tr	200	110	80
0.35x1219xC	EV0067C	1	7,700	A71571	T	237	348	42	48.7	Good	L	180	Tr	200	110	80
*** Sub Total (020)***			6			46,140 (kg)			< No	Veld >						
0.40x1219xC	EV1111AA	1	8,180	B97861	T	164	310	49	39.3	Good	L	20	Tr	70	130	70
0.40x1219xC	EV1111B	1	8,480	B97861	T	164	310	49	39.3	Good	L	20	Tr	70	130	70
0.40x1219xC	EV1111C	1	8,120	B97861	T	164	310	49	39.3	Good	L	20	Tr	70	130	70
0.40x1219xC	EV0212A	1	8,860	B97868	T	188	326	43	44.9	Good	L	20	10	80	140	60
0.40x1219xC	EV0212B	1	8,840	B97868	T	188	326	43	44.9	Good	L	20	10	80	140	60
0.40x1219xC	EV0212C	1	8,480	B97868	T	188	326	43	44.9	Good	L	20	10	80	140	60
0.40x1219xC	EV0210A	1	8,940	B97868	T	177	311	45	41.3	Good	L	20	10	80	140	60

We hereby certify that the material herein has been made in accordance with the order and specification.

* Position - T : Top, M : Middle, B : Bottom
 * Tensile test - Direction Longitudinal, Gauge length 50mm(Rectangular)
 * Division - L:Ladle Analysis, * Tr(Trace)
 * Chemical Composition Unit: -2:x1/100, -3:x1/1000, -4:x1/10000, -5:x1/100000

* This Mill Test Certificate cannot be copied for any purpose.

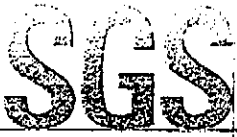


Surveyor To:

KT-102, 10 MAR 01, 2006

Kang S.H

30904



Test Report

No.: GZSCR040827716/LP

Date: AUG 13, 2004

Page 1 of 1

GUANGZHOU MAYER CORP. LTD.
NO.38 YONGHE ROAD,
YONGHE ECONOMIC ZONE,
GETDD, GUANGZHOU, P.R.CHINA

Report on the submitted sample said to be COLD ROLLED STEEL COIL (SPCC)

SGS Ref No. : SZ9040808985EC-3.3
Sample Receiving Date : AUG 09, 2004
Testing Period : AUG 09, 2004 TO AUG 12, 2004

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - In-house method, with reference to EPA method 3050B: 1996.
Cadmium content - In-house method, with reference to BS EN1122: 2001 method B.
Mercury content - In-house method, with reference to EPA 3052: 1996.
Hexavalent Chromium content - with reference to EPA 3060A: 1996 & EPA 7196A: 1992.
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

RESULTS

	Silvery metal sheet
Lead Content (Pb)(ppm)	10
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

He Xiaoyan, Jane
Tech. Manager

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GZCM 162567

Test Report

No.: SZTYR041126250/LP

Date: NOV 10, 2004

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CHANGDA METAL & ELECTROPLATE FACTORY
FENG HUANG SHAN INDUSTRIAL AREA,
LU DONG, HUMEN TOWN, DONGGUAN

Report on the submitted sample said to be 铁壳镀锡

Sample Receiving Date : NOV 05, 2004

Testing Period : NOV 05, 2004 TO NOV 10, 2004

Test Requested : As specified by client, to determine Lead, Antimony, Arsenic, Barium, Cadmium, Hexavalent Chromium, Mercury & Selenium contents in the submitted sample.

Test Method : Lead, Antimony, Arsenic, Barium, Cadmium, Mercury & Selenium contents -In-house method.
Hexavalent Chromium content - with reference to EPA Method 3060A: 1996
Analysis was performed by Atomic Absorption Spectrometer (AAS), Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) and UV-VIS Spectrophotometer.


Results

		<u>Silvery color metal parts</u>
Lead (Pb) content	(ppm)	68
Antimony (Sb) content	(ppm)	< 2
Arsenic (As) content	(ppm)	< 2
Barium (Ba) content	(ppm)	22
Cadmium (Cd) content	(ppm)	< 2
Hexavalent Chromium [Cr(VI)] content	(ppm)	< 2
Mercury (Hg) content	(ppm)	< 2
Selenium (Se) content	(ppm)	< 2

Note: - < = Less than
- ppm = mg/kg
- Results shown are of the total weight of dry sample.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.


Li Ying, Susan
Supervisor

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Test Report

No.: SZTYR041126249/LP

Date: NOV 10, 2004

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CHANGDA METAL & ELECTROPLATE FACTORY
FENG HUANG SHAN INDUSTRIAL AREA,
LU DONG, HUMEN TOWN, DONGGUAN

Report on the submitted sample said to be 铁壳镀镍

Sample Receiving Date : NOV 05, 2004

Testing Period : NOV 05, 2004 TO NOV 10, 2004

Test Requested : As specified by client, to determine Lead, Antimony, Arsenic, Barium, Cadmium, Hexavalent Chromium, Mercury & Selenium contents in the submitted sample.

Test Method : Lead, Antimony, Arsenic, Barium, Cadmium, Mercury & Selenium contents - in-house method.
Hexavalent Chromium content - with reference to EPA Method 3060A, 1996
Analysis was performed by Atomic Absorption Spectrometer (AAS), Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES), and UV-VIS Spectrophotometer.

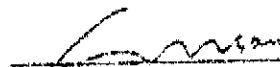
Results

		<u>Silvery color metal parts</u>
Lead (Pb) content	(ppm)	46
Antimony (Sb) content	(ppm)	< 2
Arsenic (As) content	(ppm)	< 2
Barium (Ba) content	(ppm)	19
Cadmium (Cd) content	(ppm)	< 2
Hexavalent Chromium [Cr(VI)] content	(ppm)	< 2
Mercury (Hg) content	(ppm)	< 2
Selenium (Se) content	(ppm)	< 2

Note: - < = Less than
- ppm = mg/kg
- Results shown are of the total weight of dry sample.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.


Li Ying, Susan
Supervisor



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