

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

Report No. : CB/2005/B2320
Date : 2005/11/17
Page : 2 of 4

Test Result

PART NAME NO.1 : YELLOW METAL

PAGE

Test Item (s)	Unit	Method	MDL	Result No.1	Spec.
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	90
Soluble Antimony (Sb)	ppm	ICP-AES	5	< 5.0	60
Soluble Arsenic (As)	ppm	ICP-AES	2.5	< 2.5	25
Soluble Barium (Ba)	ppm	ICP-AES	10	< 10.0	1000
Soluble Cadmium (Cd)	ppm	ICP-AES	5	< 5.0	75
Soluble Chromium (Cr)	ppm	ICP-AES	5	< 5.0	60
Soluble Mercury (Hg)	ppm	ICP-AES	3	< 5.0	60
Soluble Selenium (Se)	ppm	ICP-AES	3	< 5.0	500

Test Item (s)	Unit	Method	MDL	Result No.1	Spec.
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. 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.	-
Dibromobiphenyl	%		0.0005	N.D.	-
Tribromobiphenyl	%		0.0005	N.D.	-
Tetrabromobiphenyl	%		0.0005	N.D.	-
Pentabromobiphenyl	%		0.0005	N.D.	-
Hexabromobiphenyl	%		0.0005	N.D.	-
Heptabromobiphenyl	%		0.0005	N.D.	-
Octabromobiphenyl	%		0.0005	N.D.	-
Nonabromobiphenyl	%		0.0005	N.D.	-
Decabromobiphenyl	%		0.0005	N.D.	-
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	-

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

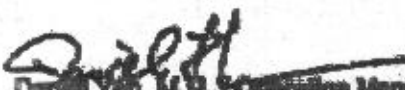
Report No. : CB/2005/B2320
Date : 2005/11/17
Page : 1 of 4

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

Type of Product	:	黃銅
Style/Item No	:	C2680(65/35)
Manufacturer/Vendor	:	MINCHALI METAL INDUSTRY CO., LTD.
Country of Origin	:	TAIWAN
Sample Received	:	2005/11/10
Testing Date	:	2005/11/10 TO 2005/11/17

Test Result

: - Please see the next page -


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

Test Report

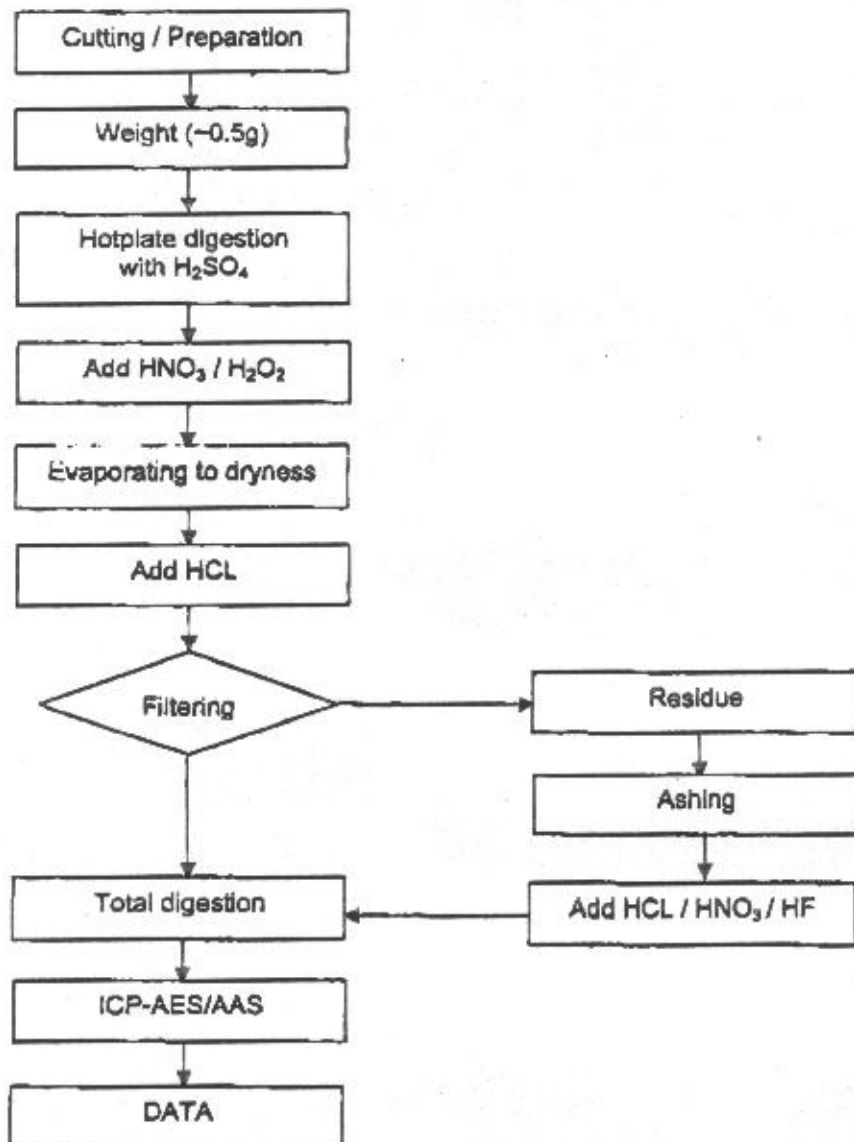
No.: GZSCR050643543/LP

Date: JUL 04, 2005

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(2)

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li
Leader : Adams Yu

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Test Report

No.: GZSCR050643543/LP

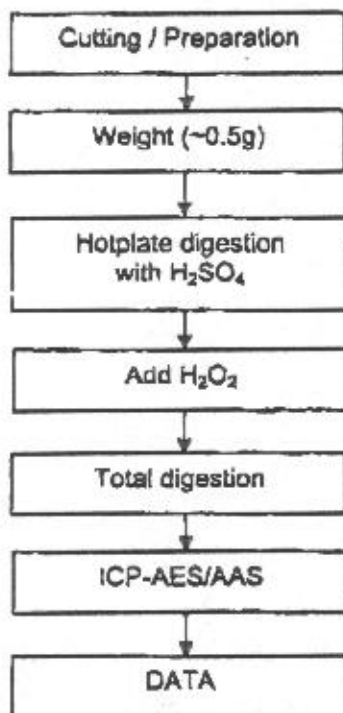
Date: JUL 04, 2005

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ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Sams Deng
Leader : Joe Li

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Test Report

No.: GZSCR050643543/LP

Date: JUL 04, 2005

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Results :

(1)

White plastic grains

Lead Content (Pb)
Cadmium Content (Cd)
Mercury Content (Hg)
Hexavalent Chromium Content [Cr(VI)]

N.D.
N.D.
N.D.
N.D.

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

(2)

Flame Retardants	White plastic grains	Detection Limit (ppm)
Polybrominated Biphenyls (PBBs)		
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
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
Polybrominated Diphenylethers (PBDEs)		
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

Note : - N.D. = Not Detected (< 5 ppm)
- ppm = mg/kg

*** End of Report ***

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Test Report

No.: GZSCRO50643543/LP

Date: JUL 04, 2005

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EMS-CHEMIE (ASIA) LTD.
36, KWANG FU SOUTH RD.,
HSIN CHU INDUSTRIAL PARK,
FU KOU HSIANG, HSIN CHU HSIEN,
303 TAIWAN R.O.S

Report on the submitted sample said to be PLASTIC

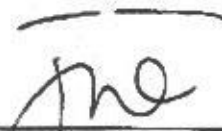
SGS Ref No. : SZ050612112EC
Buyer : SONY, JOWLE
Manufacturer / Supplier : EMS
Item / Style / Ref. No. : PA88-Vo (ASVo 6093)
Region of Origin : TAIWAN
Sample Receiving Date : JUN 28, 2005
Testing Period : JUN 28, 2005 TO JUL 03, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test method : (1)
Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).
Lead content : Ashing after wet decomposition see flowchart (2).
Mercury content - With reference to EPA 3052: 1996.
Hexavalent Chromium content - with reference to EPA 3060A: 1996 & EPA 7196A: 1992.
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
(2) With reference to SGS in-house method. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.


He Xiaoyan, Jane
Tech. Manager

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[illegible]

7/24/05-14

電話 03-3411-006

王德林 1970

Test Report

No.: GZSCR050209195/LP

Date: MAR 02, 2005

Page 1 of 1

FERRICO ELECTRONICS (PAN YU) CO., LTD.
NO.2, REN-MIN ROAD, REN-MIN VILLAGE,
LAN-HE TOWN, PAN-YU AREA,
GUANG-ZHOU CITY, GUANG-DONG, CHINA

Report on the submitted sample said to be K1 材

SGS Ref No. : GZ050201753EC-10.3
Buyer : SONY
Sample Receiving Date : FEB 25, 2005
Testing Period : FEB 25, 2005 TO MAR 02, 2005

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 Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

RESULTS

	Dk-grey core
Lead Content (Pb)(ppm)	22
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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Test Report

REI HSING WIRE CO.,LTD.
NO. 56-5, JUINLIN STREET, SHULIN CITY, TAIPEI
COUNTY, TAIWAN

Report No. : CE/2004/81002
Date : 2004/08/17
Page : 2 of 2

Test Result

PART NAME NO.1 : MIX PURPLE, BLACK, ORANGE, BROWN, BLUE, GREEN, YELLOW, GRAY, RED, WHITE PLASTIC PELLETS
PART NAME NO.2 : SILVER COLORED METAL WIRE

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2		
PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7)	%	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.	---		
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.	---		

Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2		
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	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.		
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	N.D.		
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.	N.D.		

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " --- " = Not Applicable

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Test Report

REI HSING WIRE CO.,LTD.
NO. 56-5, JUINLIN STREET, SHULIN CITY, TAIPEI
COUNTY, TAIWAN

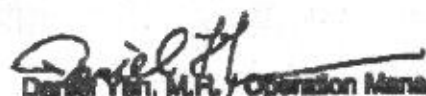
Report No. : CE/2004/81002
Date : 2004/08/17
Page : 1 of 2

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

Type of Product : APPLIANCE WIRING MATERIAL(PVC)
Style/Item No : 1015, 1500, 1617
Sample Received : 2004/08/10
Testing Date : 2004/08/10 TO 2004/08/17

=====

Test Result : - Please see the next page -


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

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Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

Report No. : CB/2005/B2320
Date : 2005/11/17
Page : 3 of 4

Test Item (s)	Unit	Method	MDL	Result No.1	Spec.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. 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.	-
Dibromobiphenyl ether	%		0.0005	N.D.	-
Tribromobiphenyl ether	%		0.0005	N.D.	-
Tetrabromobiphenyl ether	%		0.0005	N.D.	-
Pentabromobiphenyl ether	%		0.0005	N.D.	-
Hexabromobiphenyl ether	%		0.0005	N.D.	-
Heptabromobiphenyl ether	%		0.0005	N.D.	-
Octabromobiphenyl ether	%		0.0005	N.D.	-
Nonabromobiphenyl ether	%		0.0005	N.D.	-
Decabromobiphenyl ether	%		0.0005	N.D.	-
Total PBBs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	-

Test Item (s)	Unit	Method	MDL	Result No.1	Spec.
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	-
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	-
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	-
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	-

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " - " = Not Regulation

Test Report

No. 9H611986/CHEM

Date: 3.14.2005

Page 1 of 1

SUZHOU HI-CHARM ELECTRONIC CO., LTD.
MUDONG RD. HENGJING TOWN, WUZHONG DISTRICT, SUZHOU, CHINA

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

Sample Name	: CONNECTOR
SGS Ref No.	: SHEC0050304507-3
Quantity	: 20g
Model	: LEAD-FREE ELECTROPLATING
Supplier	: SUZHOUHI-CHARM ELECTRONIC CO., LTD.
Manufacturer	: JMT

Sample Receiving Date : March 09, 2006
Testing Period : March 09 to March 14, 2005

Test Requested : 1) To determine Cadmium Content on the submitted sample.
2) To determine Lead Content on the submitted sample.

Test Method	1) With reference to BS EN 1122:2001, Method B or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry. 2) With reference to US EPA Method 3050B or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
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Test Results

Item	Unit	MPL	A
Cadmium (Cd)	ppm	2	N.D.
Lead (Pb)	ppm	2	26

(Result shown is of the total weight of sample)

Sample Description:

A. Silvery metal terminal

Note : ppm=mg/kg
MDL= Method Detection Limit
N.D. = Not detected.($<MDL$)

-- End of Report --

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Elis Zhang
Supervisor

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BHCW 228943

2010年12月31日 星期三
 2010年12月31日 星期三

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Member of the IAGC Group "National Committee on Energy Research"