

Push switches

Order code	Manufacturer code	Description
78-0117	n/a	LATCHING BLACK PUSH SWITCH RC

Push switches	Page 1 of 11
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

Kinds of Materials	Materials	RoHS (Unit ppm)					
		Pb	Cd	Hg	Cr6+	PBBs	PBDEs
Plastic	Pnolic PF T385J	N.D	N.D	N.D	N.D	N.D	N.D
Copper	C1100	N.D	N.D	N.D	N.D	N.D	N.D
Plastic	POM	N.D.	N.D	N.D	N.D	N.D	N.D
Plastic	ABS PA757	N.D	N.D	N.D	N.D	N.D	N.D
Spring	Music Wire(SWPB - SWRS)	N.D	N.D	N.D	N.D		
Copper	C3602	28900	54.8	N.D	N.D		
Steel	SK	7.18	N.D	N.D	N.D		
Plastic	POM	N.D.	N.D	N.D	N.D	N.D	N.D
Spring	Music Wire(SWRH-SWC)	6	N.D	N.D	N.D		

SGS NO.	SGS DATE
<u>CE-2006-36272</u>	3/27/2006
<u>CE-2005-80193</u>	8/9/2005
<u>KE-2005-80079(POM)</u>	8/8/2005
<u>KE-2005-51620</u>	5/30/2005
<u>F690501-LF-CTS059342</u>	12/26/2005
<u>CE-2005-50019A-01</u>	5/15/2006
<u>KA-2005-10423</u>	1/21/2005
<u>KE-2005-80079(POM)</u>	8/8/2005
<u>GZSCR0603043349-CHEM</u>	4/3/2006



Test Report

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

Report No. : CE/2005/80193
Date : 2005/08/09
Page : 1 of 4

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

Type of Product : 紅銅
Style/Item No : C1100 (TCu)
Manufacturer/Vendor : MINCHALI METAL INDUSTRY CO., LTD.
Country of Origin : TAIWAN
Sample Received : 2005/08/01
Testing Date : 2005/08/01 TO 2005/08/09

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

永信


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



Test Report

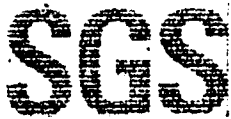
MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

Report No. : CE/2005/80193
Date : 2005/08/09
Page : 2 of 4

Test Result

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

Test Item (s):	Unit	Method	MDL	Result	Spec.
				No.1	
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.	-
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 PBDEs(PBDEs)(Polybrominated biphenyl ethers)/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. : CE/2005/80193
Date : 2005/08/09
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Test Item (s):	Unit	Method	MDL	Result	Spec.
				No.1	
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.	-

PASS

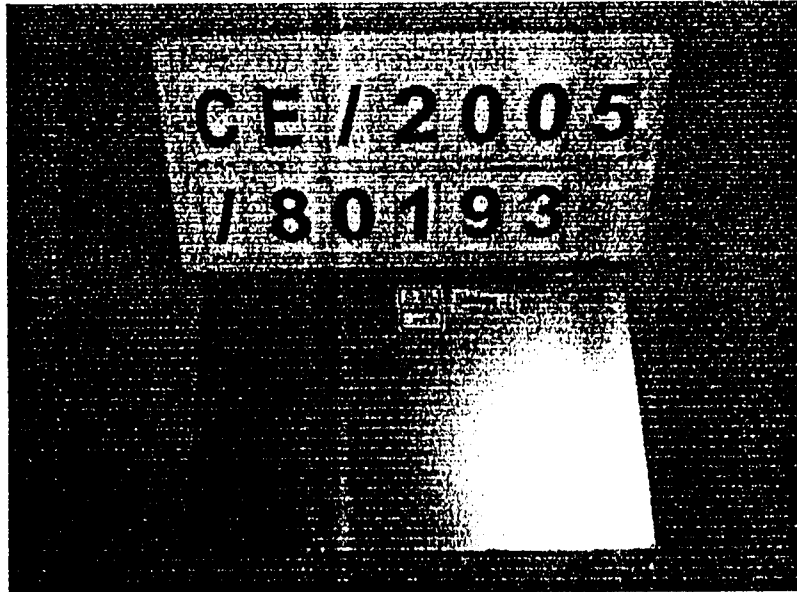
Test Item (s):	Unit	Method	MDL	Result	Spec.
				No.1	
EN 71 PART 3 Heavy metal content		As per EN 71 PART 3 : 1994 (A1 : 2000) (EN 71 & BS 5665 are identical)			
Soluble Lead (Pb)	ppm	ICP-AES	5	< 5.0	90
Soluble Antimony (Sb)	ppm	ICP-AES	5	< 5.0	60
Soluble Arsenic (As)	ppm	ICP-AES	2.5	< 2.5	25
Soluble 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	5	< 5.0	60
Soluble Selenium (Se)	ppm	ICP-AES	5	< 5.0	500

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

Test Report

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

Report No. : CE/2005/80193
Date : 2005/08/09
Page : 4 of 4



SGS**Test Report**

No. GZ0603043349/CHEM

Date: APR 03, 2006

Page 1 of 1

UNION SPRING METAL CO., LTD
NO.8 HONG MING EAST ROAD, SHIWAN TOWN, HUIZHOU CITY, GUANG DONG PROVINCE

Report on the submitted sample said to be 兩韓 S/WC

SGS Ref No. : SZ060314070EC-33
Buyer : SONY/SAMSUNG
Sample Receiving Date : JAN 04, 2006
Testing Period : JAN 04, 2006 TO JAN 10, 2006

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

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

Results

Item	Unit	MDL	Grey metal spring
Lead Content (Pb)	ppm	2	6
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.

Note : - N.D. = Not Detected (< MDL)
- MDL = Method Detection Limit
- ppm = mg/kg
- Results of this report refer to test report GZ0601000451/CHEM.

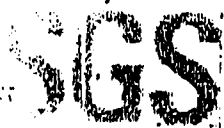
End of Report

Signed for and on behalf of
SGS-CSTC Ltd.


Huang Fang, Sunny
Sr. Engineer

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GZCM 553055



TO: 新達五金

Chemical Laboratory - KAO., SGS Taiwan Ltd.

TEST REPORT

REPORT NO. KA/2005/10423
DATE: 2005/1/21
PAGE: 1 OF 1

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS :

CLIENT : CHIA TA WORLD CO., LTD.
PRODUCT DESCRIPTION : HIGH CARBON STEEL WIRE.
TESTING DATE : 2005/1/17 TO 2005/1/21
SAMPLE RECEIVED : 2005/01/17.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
CADMIUM	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT EN1122, METHOD B:2001.	2	n.d.
CHROMIUM VI	ppm	ANALYSIS BY US EPA 7106A WITH ADVANCE TREATMENT US EPA 3060A.	2	n.d.
MERCURY	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3052	2	n.d.
LEAD	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	7.18
PBBs	%	WITH REFERENCE TO 83/264/EEC. ANALYSIS WAS PERFORMED BY GC/ECDMS OR HPLC/DAD/MS.	0.0005	n.d.
PBDEs	%	WITH REFERENCE TO 83/264/EEC. ANALYSIS WAS PERFORMED BY GC/ECDMS OR HPLC/DAD/MS.	0.0005	n.d.

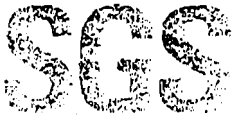
NOTE : n.d. = not detected.

- TO: 王德傑
1. A13-95 彈片
 2. A13-95A
 3. C2-30-18
 4. A13-64
 5. A13-26-4

George Huang
George Huang / Supervisor
Sign for and on behalf of
SGS Taiwan Limited



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TEST REPORT

REPORT NO. KC/2006/50019A-01
DATE: 2006/05/15
PAGE: 1 OF 2



THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS:

CLIENT : HUEI SHIANG NUT FACTORY.
PRODUCT DESCRIPTION : NUT.
: (AS ATTACHED SAMPLE PHOTO).
TESTING DATE : 2006/05/09 TO 2006/05/15.
SAMPLE RECEIVED : 2006/05/09.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

Table with 5 columns: TEST ITEM(S), UNIT, METHOD, MDL, RESULT. Rows include Cadmium (Cd), CHROMIUM VI*, Mercury (Hg), and Lead (Pb) with their respective units and test results.

- NOTE: (1) n.d. = not detected
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) * = Chromium VI content is for coating/plating on metallic sample
(5) Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.



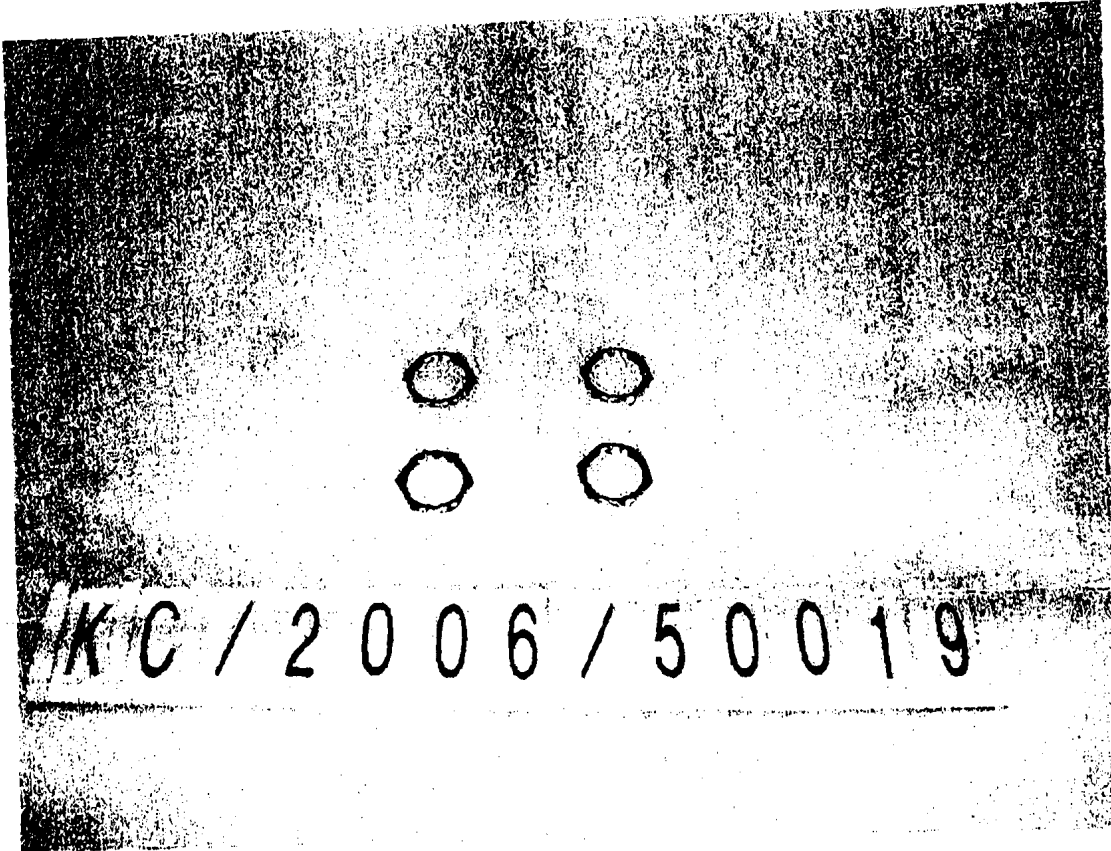
Handwritten signature and text: Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

This test report is prepared by the Client's authorized personnel... Attention is drawn to the importance of laboratory accreditation...



TEST REPORT

REPORT NO. KC/2006/50019A-01
DATE: 2006/05/15
PAGE: 2 OF 2



<END>



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