



SPECIFICATION FOR APPROVAL

CUSTOMER Sea Company

CUSTOMER PART NO. _____

MODEL NO. LLF0073

PART NO. LLF0073-50 Rev.A

MODEL NAME Common Mode Choke

DATE 2006 04 03

APPROVED SIGNATURES		

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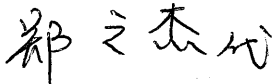


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Model NO.	LLF0073	Model Name	CHOKE COIL
Part NO.	LLF0073-50	SIZE	15.0*10.40*7.0

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Approved Signatures		
Approved by:	Checked by:	Reported by:
 4/03/2006		

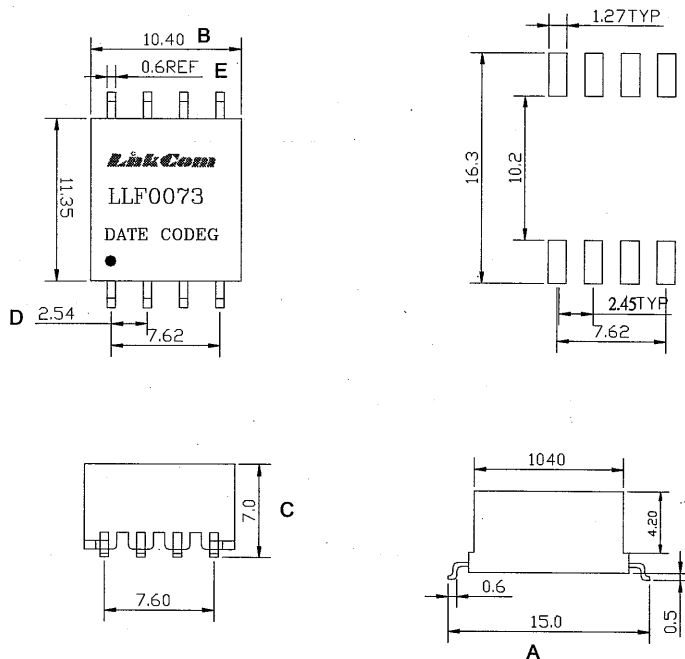
Model NO.	LLF0073	Model Name	CHOKE COIL
Part NO.	LLF0073-50	SIZE	15.0*10.40*7.0

Specification and Dimension

Electrical characteristic:

	Item	Test Pin	Specifications	Short Pins	Testing Condition	Instruments
1	Inductance	1-4	2.5mH±20%		100KHz/0.1V/Ser	WK-3260B
		8-5				
2	D.C. Resistance	1-4	0.9ΩMax.		AT 25°C	WK-3260B
		8-5				
3	HI-POT	Pri.-Sec.	2000V/60Hz		1Second/1mA	ZENTECH 9052
4	Turn Ratio	(1-4):(8-5)	1:1±2%			WK-3260B

Dimension: (Unit: mm)



Unless otherwise specified, all tolerances are ±0.25

Model NO.	LLF0073	Model Name	CHOKE COIL
Part NO.	LLF0073-50	SIZE	15.0*10.40*7.0

Test Report

Amount: 5 PCS

Electrical characteristic:

Item	Test Pin	Specifications	1	2	3	4	5	6	7	8	9	10	Average
1 Inductance	1-4	2.5mH±20%	2.63	2.58	2.36	2.64	2.54						2.55
	8-5		2.64	2.56	2.38	2.66	2.54						2.56
2 D.C. Resistance	1-4	0.9ΩMax.	0.56	0.57	0.59	0.54	0.56						0.56
	8-5		0.55	0.57	0.58	0.55	0.56						0.56
3 HI-POT	Pri-Sec	2000V/60Hz	O.K.	O.K.	O.K.	O.K.	O.K.						O.K.
4 Turn Ratio	(1-4):(8-5)	1:1±2%	O.K.	O.K.	O.K.	O.K.	O.K.						O.K.

Production Drawing:

Item	Specifications	1	2	3	4	5	6	7	8	9	10	Average
1 A	15.0±0.25m/m	15.04	14.99	15.08	14.96	15.02						15.02
2 B	10.4±0.25m/m	10.44	10.51	10.48	10.45	10.45						10.47
3 C	7.0 Max. m/m	6.53	6.54	6.51	6.49	6.52						6.52
4 D	2.54±0.25m/m	2.54	2.54	2.54	2.54	2.54						2.54
5 E	0.6m/m Ref.	0.62	0.61	0.61	0.61	0.62						0.61

1. TEST INSTRUMENTS :

CH - 1061 : Digital LCZ Meter
 CH - CDC-301 : Current Source & D.C. Resistance Meter
 WK-3260B : Wayne Kerr Precision Magnetics Analyzer
 4395A : Network/Spectrum/Impedance Analyzer
 ZENTECH 9052 : Programmable Auto Safety Tester

2. TEST CONDITION :

TEMPERATURE : 25 °C
 RELATIVE HUMIDITY : 65%

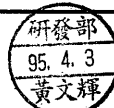
3. TEST DIMENSION :

CD-6" CS : Mitutoyo corp.

Approved by:

鄒之杰代
4/3 2006

Checked by:

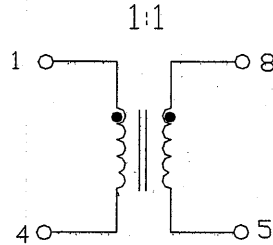


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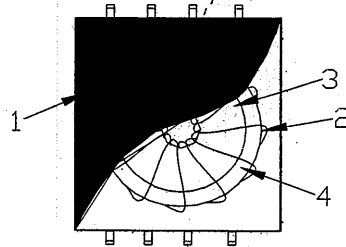


Model NO.	LLF0073	Model Name	CHOKE COIL
Part NO.	LLF0073-50	SIZE	15.0*10.40*7.0

Construction & Winding Method



Material Certificate List



ITEM	MATERIAL	RATING	TYPE	MANUFACTURER	UL NO.
1.CASE	<input checked="" type="checkbox"/> DAP	94V-0		WAH HONG INDUSTRIAL CORP	E41429
2.WIRE	<input checked="" type="checkbox"/> POLYURETHANE ENAMLED COPPER WIRE	155°C	0SFBY	JUNG SHING WIRE CO.,LTD OR EQUIVALENT	E174837
3.CORE	<input checked="" type="checkbox"/> FERRITE CORE			STEWARD OR YST TAI-TECH	
	<input type="checkbox"/> NICKEL SHEET			LINTON & HIRST TAE SUK PRECISION CO., LTD OR EQUIVALENT	
	<input type="checkbox"/> SILICON SHEET			CHUAN YIN CO., LTD TA YA CO., LTD OR EQUIVALENT	
4. RUBBER	<input checked="" type="checkbox"/> SILICONE	V-0	170#	DOW CORNING CORP OR EQUIVALENT	E40195
	<input type="checkbox"/> EPOXY	V-0	9001A/B	SHAW HUOW ENTERPRISE CO.,LTD	



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Plastics - Component

Guide Information

SUMITOMO BAKELITE CO LTD
5-8 HIGASHI-SHINAGAWA 2-CHOME
SHINAGAWA-KU
TOKYO 140-0002, JAPAN

E41429

Material Dsg	Color	Min. Thk mm	Flame Class	H		RTI		H	D	C
				W	A	Elec	Mech	V	4	
				I	I	Imp	Str	T	9	
Acrylonitrile Butadiene Styrene (ABS), modified, "PERMAFLOW", furnished as pellets.										
U-101	ALL	1.5	V-1	3	0	60	60	60	2	
		3.0	V-0	1	0	60	60	60		
Acrylonitrile Butadiene Styrene (ABS), "Sumikon", furnished as pellets.										
FM-CS200	BK	1.5	HB	-	-	60	60	60		
FM-CS20A	BK	0.96	HB	-	-	60	60	60		
		-3.0	-	-	-	-	-	-		
FM-MS100XX	NC	1.0-3.0	HB	-	-	60	60	60		
Alkyd Molding Compound "Polyester" (AMC), "SUMIKON", furnished as granular, pellets.										
TM-4101	ALL	0.86	HB	3	1	105	130	130		0
		3.0	HB	0	1	105	130	130		
TM-4120	ALL	0.75	V-0	-	-	105	130	130	0	4
		1.1	V-0	0	1	105	130	130		

	BK, BN	0.75	V-0	-	-	105	130	130			
		3.0	V-0	0	0	105	130	130			
TM-4125	BK	0.75	V-0	1	0	105	130	130	0	4	0
		1.5	V-0	1	0	105	130	130			
		3.0	V-0	0	0	105	130	130			
Alkyd Molding Compound "Polyester" (AMC), "Sumikon", furnished as pellets, granular material.											
TM-4190	ALL	1.5	V-0	1	0	105	130	130			0
		2.1	V-0	1	0	105	130	130			
		3.0	V-0	0	0	130	130	130			
TM-4195	BK, BN	1.5	V-0	1	0	105	130	130		4	0
		3.0	V-0	0	0	105	130	130			
TM-4400	ALL	0.75	HB	-	-	105	130	130			
TM-5100	BK	1.5	V-1	-	-	105	130	130			
Bulk Molding Compound "Polyester" (BMC), furnished as powder or pellets.											
AV-Lite EP230, TM-EP230											
	ALL	0.75	V-0	2	0	105	130	130	0	4	0
		1.5	V-0	1	0	105	130	130			
		3.0	V-0	0	0	105	130	130			
Diallyl Phthalate (DAP), "Sumikon", furnished as B staged prepolymers.											
AM-100J8	ALL	0.69	HB	-	-	130	130	130			
AM-1130, AM-113											
	BK	0.20	V-0	-	-	130	130	130	0	5	0
	BK, GN	0.75	V-0	0	2	130	130	130			
	ALL	1.1	V-0	0	1	130	130	130			
		1.5	V-0	0	1	130	130	130			
		3.0	V-0	0	1	130	130	130			
AM-113Z	BK	0.97	V-0	-	-	130	130	130			
AM-113ZH	BK	0.97	V-0	-	-	130	130	130			
AM-113ZK	BK	1.0	V-0	-	-	130	130	130			
AM-1140, AM-3130, AM-3131											
	ALL	0.99	V-0	1	0	130	130	130	0	5	0
		1.5	V-0	1	0	130	130	130			



OBMW2.E174837

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(Systems, Electrical Insulation - Component) Magnet Wire - Component

Guide Information

JUNG SHING WIRE CO LTD
231 CHUNG CHENG RD, SEC 3
JEN-TEH HSIANG
TAINAN HSIEN 717, TAIWAN

E174837

Mtl Dsg	Mark Dsg	Coat Typ		ANSI Type	Temp Class
		BC	OC		
AIW	—	Polyamideimide	—	MW81-C	220
CFUEWB	—	Polyurethane	—	MW75C	130
EIAIW	—	Polyester-	Polyamide-	MW35C,	200
		imide	imide	MW73C	
EILOCKY	—	Polyesterimide	Polyamide	—	180
EILOCKW	—	Polyesterimide	Modified	—	200
			Epoxy		
EIW	—	Polyesterimide	—	—	220
EIW-2	—	Polyesterimide	—	MW74-C	200
FL.EILOCKY	—	Modified Polyester	Polyamide	—	155
LSFFW	—	Polyurethane	—	MW79-C	155
LSUEW	—	Polyurethane	—	—	130
PEW	—	Polyester	—	—	155
PEW-2	—	Polyester	—	MW5-C	155
PEW-3	—	Polyester	—	MW5-C	155

PEW-4	—	Polyester	—	MW5-C	155
PEW-5	—	Polyester	—	MW5-C	155
LUY	—	Polyurethane	Polyamide	MW28-C	130
SFHY	—	Polyurethane	Polyamide	MW83-C	180
PEY	—	Polyester	Nylon	MW24-C	155
SF.FLW	—	Modified Polyester	—	MW26C	155
SF.EIW	—	Polyesterimide	—	MW77C	180
SF.BY@	—	Modified Polyester	Nylon	MW27-C	155
SF.FLY@	—	Modified Polyester	Nylon	MW27-C	155
SF.BLOCKBS	—	Modified	Modified	—	155
		Polyester	Polyamide		
SF.EILOCKY#	—	Polyesterimide	Polyamide	—	180
SF.EILOCKBS	—	Polyesterimide	Modified	—	180
			Polyamide		
SF.BW@	—	Modified Polyester	—	MW26C	155
SFFW#	—	Polyurethane		MW79-C	155
SFFY#	—	Polyurethane	Polyamide	MW80C	155
UEW-1	—	Polyurethane	—	MW2-C	105
UEW-2	—	Polyurethane	—	—	130
UEW-4#	—	Polyurethane	—	MW75C	130
UEY	—	Polyurethane	Nylon	MW28-C	130
UEY-2#	—	Polyurethane	Polyamide	MW28-C	130
SFFY-2	—	Polyurethane	Polyamide	MW80-C	155
				MW28C	130
SFFW-2	—	Polyurethane	—	MW79-C	155
LSFFY	—	Polyurethane	Polyamide	MW80-C	155
PEY-2	—	Polyester-amide-imide	Polyamide	MW24-C	155
EISVW	—	Polyester-imide	Polyamide	MW76-C	180

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.

LZ - Signifies magnet wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.



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Plastics - Component**

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Plastics - Component

Guide Information

DOW CORNING CORP
3901 S SAGINAW RD
MIDLAND, MI 48640 USA

E40195

Material Dsg	Color	Min. Thk mm	Flame Class	H		RTI		H	D	C	
				W	A	Elec	Mech	V	4		
				I	I	Imp	Str	T	9		T
Silicone 'Room Temperature Vulcanizing' (RTV), furnished as bulk.											
3165 Fast Tack Free Adhesive	GY	1.5	HB	—	—	105	—	105	—	—	—
		2.1	HB	1	0	105	—	105	—	—	0
		3.1	V-1	—	0	105	—	105	—	—	—
		5.4	V-0	—	—	105	—	105	—	—	—
706 High Temperature Industrial Sealant	RD	1.5	HB	—	—	105	—	105	—	—	—
9-1359 Adhesive/Sealant	GY	1.5	HB	—	—	105	—	105	—	—	—
9-1363	WT, GY, BK	1.5	HB	—	—	105	—	105	—	—	—
Silicone 'Room Temperature Vulcanizing' (RTV), furnished as one liquid component.											
1-2620 Low VOC RTV Coating	NC	3.0	—	—	—	105	—	105	—	—	2
3120	RD	1.5	HB	2	0	220	—	220	1	5	—
3140	CL	1.9	—	—	—	180	—	180	—	—	—
3145	GY	1.5	—	—	—	200	—	200	—	—	—
	CL	1.9	—	—	—	180	—	180	—	—	—
3-7065+	ALL	1.9	—	—	—	140	—	140	—	—	—

Silastic LSR 9280-60	NC	0.38	HB	—	—	105	—	105	—	—	—
Silastic LSR 9280-70	NC	0.38	HB	—	—	105	—	105	—	—	—
Silastic NEW GP-50	BK	0.85	HB	—	—	105	—	105	—	—	—
Silicone Molding Resin (SIR), designated "SYLGARD" furnished as two liquid components.											
170#, 96-082, X3-6653											
	BK	1.5	—	—	—	170	—	170	—	5	—
		5.6	V-0	—	—	170	—	170	—	—	—
182	BK	1.5	—	—	—	130	—	130	—	—	—
		6.0	V-1	—	—	130	—	130	—	—	—
184	NC	1.5	—	—	—	130	—	130	—	—	—
		6.0	V-1	—	—	130	—	130	—	—	—
		8.4	V-0	—	—	130	—	130	—	—	—
186	NC	1.5	—	—	—	130	—	130	—	5	—
		5.9	V-1	—	—	130	—	130	—	—	—
SYLGARD 160	GY	5.9	V-0	—	—	105	—	105	—	2	—
SYLGARD 164	GY	5.9	V-0	—	—	150	—	105	—	2	—
SYLGARD 165	GY	0.6	V-1	—	—	105	—	105	—	—	—
		5.7	V-0	—	—	105	—	105	—	2	—
SYLGARD 275	NC	6.2	V-1	—	—	105	—	105	—	—	—
		9.2	V-0	—	—	105	—	105	—	—	—
SYLGARD 567	GY	3.0	—	—	—	105	—	105	—	—	0
	GY	5.65	V-0	0	0	105	—	105	—	—	—
SYLGARD 577	GY	5.2	V-0	0	0	105	—	105	—	—	—
SYLGARD Q3-3600(a)	GY	3.0	V-1	—	—	105	—	105	—	—	—

#-May be followed by the suffixes "Fast Cure" or "Extended Pot-Life".

(a)-Liquid components are designated A&B.

(b)-Density range: 0.22-0.44 g/cc.

(c)-Flame rating is based on material coated on 1/16" FR-4 boards

+ -Except a 150 C Mechanical w/o impact RTI where elongation is not essential.

Marking: Company name and material designation on container, wrapper or finished part.

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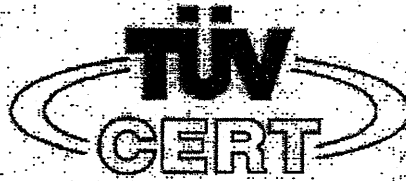
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[Products Certified for](#)



CERTIFICATE

The TÜV CERT Certification Body
of RWTÜV Systems GmbH

hereby certifies in accordance with TÜV CERT
procedure that

LinkCom

LINKCOM MANUFACTURING CO., LTD.

5th Fl., No. 127, Lane 235, Pao-Chiao Rd.,
Hsinfeng City, Taipei Hsien,
Taiwan, Republic of China

has established and applies a quality system for

Design, Manufacturing and Supply of transformers

An audit was performed, Report No. 25-1692/2002

Proof has been furnished that the requirements according to
ISO 9001 : 2000 / EN ISO 9001 : 2000 / JIS Q 9001 : 2000 / ANSI/ASQC Q9001 : 2000
are fulfilled. The certificate is valid until October 2005

Certificate Registration No. 04100 21619



Essen, 25.10.2002

RWTÜV


TÜV CERT Certification Body
of Rheinisch-Westfälischer TÜV e.V.

LLF0073-50 RoHS list

unit:ppm

Part	Lead	Mercury	Cadmium	Hexavalent chromium	PBB	PBDE
Molding compound	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Terminal	20.8	N.D.	N.D.	N.D.	N.D.	N.D.
Wire	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Glue	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Core	17.5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin	299.5	N.D.	N.D.	N.D.	N.D.	N.D.

N.D.= not detected(<method detection limit)
n/a= none test

ver:A

LLF0073-50 MAIN MATERIAL'S SGS

1. Index	1-1
2. Molding compound	2-1~2-2
3. Terminal	3-1~3-4
4. Wire	4-1~4-5
5. Glue	5-1~5-4
6. Core	6-1~6-5
7. Tin	7-1~7-4



Chemical Laboratory - Kao.,SGS Taiwan Ltd.

TEST REPORT

REPORT NO.KE/2005/90061
DATE: 2005/9/8
PAGE: 1 OF 2

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

CLIENT : WAH HONG INDUSTRIAL CORP..
PRODUCT DESCRIPTION : DAP MOIDING COMPOUND.
: (AS ATTACHED SAMPLE CARD).
STYLE/ITEM NO. : WH-9100(SERIES).
TESTING DATE : 2005/09/02 TO 2005/9/8 .
SAMPLE RECEIVED : 2005/09/02.

=====

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	ICP-AES after reference to EN 1122, Method B:2001 or other acid digestion.	2	n.d.
CHROMIUM VI	ppm	Analysis by US EPA 7196A with advance treatment US EPA 3060A.	2	n.d.
MERCURY	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
LEAD	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.



Kueilan Chen

**Kueilan Chen / Asst. Supervisor
Signed for and on behalf of
SGS Taiwan Limited**

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Member of the SGS Group (Société Générale de Surveillance)



Chemical Laboratory - Kao.,SGS Taiwan Ltd.

TEST REPORT

REPORT NO.KE/2005/90061

DATE: 2005/9/8

PAGE: 2 OF 2

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBBs (Polybrominated biphenyls)	---	---	---	---
BROMOBIPHENYL	%	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.
PBDEs (Polybrominated biphenyl ethers)	---	---	---	---
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.

NOTE : n.d. = not detected.

<END>

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SGS Taiwan Limited

No. 208, Chung Hwa 2nd Road, San Ming District, Kaohsiung, Taiwan
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Member of the SGS Group (Société Générale de Surveillance)



Test Report

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

Report No. : CE/2005/13838
Date : 2005/01/27
Page : 1 of 4

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

<u>Type of Product</u>	:	磷青銅
<u>Style/Item No</u>	:	C5191 (FBP)
<u>Manufacturer/Vendor</u>	:	MINCHALI METAL INDUSTRY CO., LTD.
<u>Country of Origin</u>	:	TAIWAN
<u>Sample Received</u>	:	2005/01/20
<u>Testing Date</u>	:	2005/01/20 TO 2005/01/27



Test Result : - Please see the next page -


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

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TW 1530401

SGS Taiwan Ltd. No. 33 Yu Chyuan Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五權路33號
 台灣檢驗科技股份有限公司 (886-2) 2298-3938 f (886-2) 2299-3237 www.tw.sgs.com

Member of SGS Group

1001



Test Report

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

Report No. : CE/2005/13838
Date : 2005/01/27
Page : 2 of 4

Test Result

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

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	< 2.3	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

Test Item (s):	Unit	Method	MDL	Result	Spec.
				No.1	
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)	%	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.	-
PBDEs(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.	-

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TW 1530402

SGS Taiwan Ltd. | No. 83 Wu Chyuan Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五權路83號
台灣檢驗科技股份有限公司 | t (886-2) 2288-3838 | f (886-2) 2288-3231 | www.tw.sgs.com

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Test Report

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

Report No. : CE/2005/13838
Date : 2005/01/27
Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result	Spec.
				No.1	
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	-
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.	-
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	-
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	20.8	-

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

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TW 1530403

SGS Taiwan Ltd. | No. 87 Wu Chyuan Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣瓦磘工業區光耀路87號
 台灣檢驗科技股份有限公司 | (886-2) 2299-3880 | (886-2) 2299-3237 | www.tw.sgs.com

Member of SGS Group

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Test Report

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

Report No. : CE/2005/13838
Date : 2005/01/27
Page : 4 of 4



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TW 1530404

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No. 33 Wu Chuan Road, Wuku Industrial Zone, Taipei County, Taiwan. / 台北縣五股工業區五權路33號
t (886-2) 2289-3939 f (886-2) 2289-3237

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Member of SGS Group



Test Report

JUNG SHING WIRE CO., LTD.
 231, SEC. 3, CHUNG-CHENG RD., JEN-TEH HSIANG,
 TAINAN HSIEN, 717 TAIWAN

Report No. : CE/2005/45613
 Date : 2005/05/06
 Page : 1 of 2

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

Type of Product : CLASS F SOLDERABLE (OVERCOATED WITH NYLON)
 ENAMELLED WIRE
 Style/Item No : SFBW/SFBY
 Buyer/Order No : CUSTOMER OF JUNG SHING WIRE CO.,LTD.
 Sample Received : 2005/04/27
 Testing Date : 2005/04/27 TO 2005/05/06

Test Result

PART NAME NO.1 : TRANSPARENT COATING (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s)	Unit	Method	MDL	Result 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.

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


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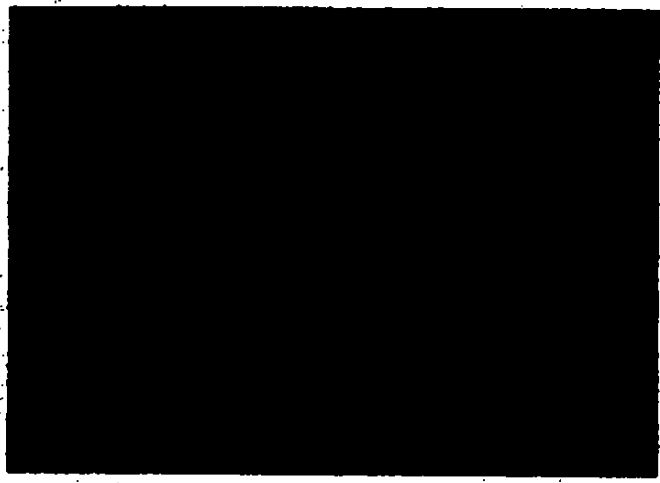
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Test Report

JUNG SHING WIRE CO., LTD.
231, SEC. 3, CHUNG-CHENG RD., JEN-TEH HSIANG,
TAINAN HSIEN, 717 TAIWAN

Report No. : CB/2005/45613
Date : 2005/05/06
Page : 2 of 2



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SGS TAIWAN LIMITED | NO. 1254, WU SHANG ROAD, TAINAN COUNTY, TAINAN
71701 TAIWAN | TEL: 81-6-2912311 | FAX: 81-6-2912312



Test Report

JUNG SHING WIRE CO., LTD.
231, SEC. 3, CHUNG-CHENG RD., JEN-TEH HSIANG,
TAINAN HSIEN, 717 TAIWAN

Report No. : CE/2005/50146
Date : 2005/05/11
Page : 1 of 3

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

Type of Product	:	CLASS F SOLDERABLE (OVERCOATED WITH NYLON) ENAMELLED WIRE
Style/Item No	:	SFEW/SFHY
Sample Received	:	2005/04/27
Testing Date	:	2005/04/27 TO 2005/05/11

Test Result : - Please see the next page -

• This report is added testing by CE/2005/45613 •

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Test Report

JUNG SHING WIRE CO., LTD.
 231, SEC. 3, CHUNG-CHEW RD., JEN-TEH HSIANG,
 TAINAN HSIEN, 717 TAIWAN

Report No. : CE/2005/50146
 Date : 2005/05/11
 Page : 2 of 3

Test Result

PART NAME NO.1 : TRANSPARENT COATING (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (sp)	Unit	Method	MDL	Result
				No.1
bromobiphenyl	%	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	%			N.D.
PHHs(Polybrominated biphenyls)/Sum of above				
bromobiphenyl 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 PHHEs(Polychlorinated biphenyl ethers)/Sum of above	%			N.D.

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

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TAI NAN HSIEN, 717 TAIWAN

Report No. : CB/2005/50146
Date : 2005/05/11
Page : 3 of 3



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SGS TAIWAN LIMITED | NO. 138-1, WU KANG ROAD, TAINAN COUNTY, TAIWAN.
TEL: 81-6-2219111 FAX: 81-6-2219117



Test Report

SIL-MORE INDUSTRIAL LTD.

16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI
COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/87166

Date : 2005/09/07

Page : 1 of 4

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

Type of Product : SYLGARD 170 A & B SILICONE ELASTOMER
Sample Received : 2005/08/31
Testing Date : 2005/08/31 TO 2005/09/07

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


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

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Test Report

SIL-MORE INDUSTRIAL LTD.
16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI
COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/87166
Date : 2005/09/07
Page : 2 of 4

Test Result

PART NAME NO.1 : MIXED 2 KIND OF WHITE+BLACK LIQUID (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				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 PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.

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Test Report

SIL-MORE INDUSTRIAL LTD.
16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI
COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/87166
Date : 2005/09/07
Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result
				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.

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

Test Report

SIL-MORE INDUSTRIAL LTD.

16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI
COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/87166

Date : 2005/09/07

Page : 4 of 4



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Test Report

研新科技有限公司
*338桃園縣蘆竹鄉大竹路258-1號

報告號碼 : CE/2005/53869
日期 : 2005/05/26
頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : 鐵氧體磁環
產品型號 : H10
收件日期 : 2005/05/19
測試日期 : 2005/05/19 TO 2005/05/26

測試結果 : 此份樣品所化驗的化學物質—鉛、鎘、汞、六價鉻的測試結果，符合RoHS指令(2002/95/EC)

測試結果

測試部位 NO.1 : 黑灰色磁環(請參照附件圖片)

通過

測試項目:	單位	測試方法	偵測極限值	結果	RoHS 限值
				NO.1	
六價鉻	ppm	依照US EPA 3060A方法, 用UV-VIS 做分析	2	N.D.	1000
鎘	ppm	依照 EN1122 方法B:2001或其他酸 消化方法,用感應耦合電漿原子發射 光譜儀(ICP-AES)做分析	2	N.D.	100
汞	ppm	依照 US EPA 3052 方法或其他酸消 化方法,用感應耦合電漿原子發射光 譜儀(ICP-AES)做分析	2	N.D.	1000
鉛	ppm	依照 US EPA 3050B 方法或其他酸 消化方法,用感應耦合電漿原子發射 光譜儀(ICP-AES)做分析	2	17.5	1000

備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)
(2) ppm = mg/kg / 百萬分之一
(3) MDL= Method Detection Limit(偵測極限值)


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

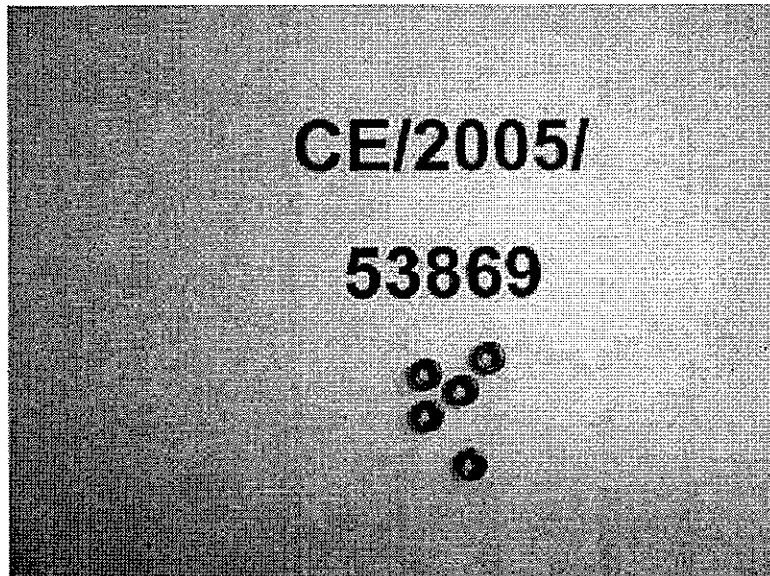
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Test Report

研新科技有限公司
*338桃園縣蘆竹鄉大竹路258-1號

報告號碼 : CE/2005/53869
日期 : 2005/05/26
頁數 : 2 of 2



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Test Report

研新科技有限公司
*338桃園縣蘆竹鄉大竹路258-1號

報告號碼 : CE/2005/44302
日期 : 2005/04/27
頁數 : 1 of 3

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : FERRITE CORE, 鐵氧體磁環
產品型號 : H10材質產品
收件日期 : 2005/04/20.
測試日期 : 2005/04/20 TO 2005/04/27

=====
測試結果 : - 請見下一頁 -


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

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Test Report

研新科技有限公司
*338桃園縣蘆竹鄉大竹路258-1號

報告號碼 : CE/2005/44302
日期 : 2005/04/27
頁數 : 2 of 3

測試結果

測試部位 NO.1 : 黑灰色氧化物(請參照附件圖片)

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯	%		0.0005	N.D.
三溴聯苯	%		0.0005	N.D.
四溴聯苯	%		0.0005	N.D.
五溴聯苯	%		0.0005	N.D.
六溴聯苯	%		0.0005	N.D.
七溴聯苯	%		0.0005	N.D.
八溴聯苯	%		0.0005	N.D.
九溴聯苯	%		0.0005	N.D.
十溴聯苯	%		0.0005	N.D.
總多溴聯苯(PBBs)/以上總和	%		-	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法, 以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯醚	%		0.0005	N.D.
三溴聯苯醚	%		0.0005	N.D.
四溴聯苯醚	%		0.0005	N.D.
五溴聯苯醚	%		0.0005	N.D.
六溴聯苯醚	%		0.0005	N.D.
七溴聯苯醚	%		0.0005	N.D.
八溴聯苯醚	%		0.0005	N.D.
九溴聯苯醚	%		0.0005	N.D.
十溴聯苯醚	%		0.0005	N.D.
總多溴聯苯醚(PBBEs/PBDEs)/以上總和	%		-	N.D.

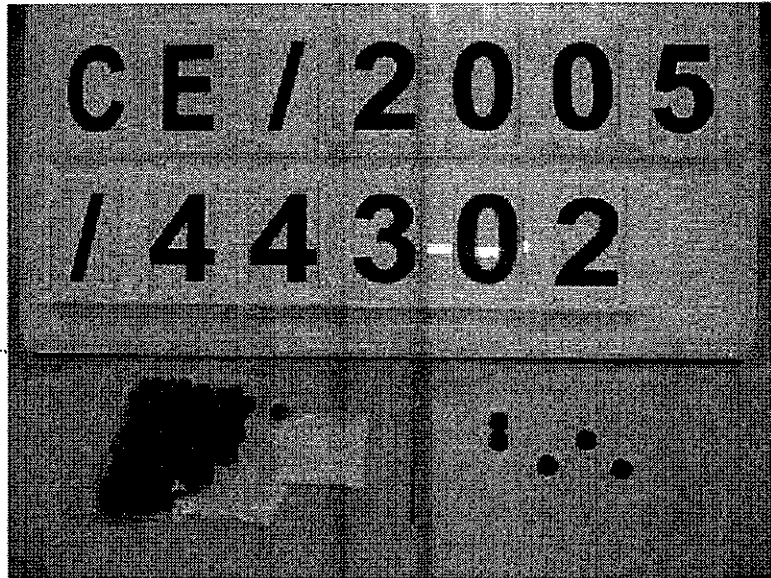
- 備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)
 (2) ppm = mg/kg / 百萬分之一
 (3) MDL= Method Detection Limit(偵測極限值)
 (4) " - " = Not Regulation / 無規格值



Test Report

研新科技有限公司
*338桃園縣蘆竹鄉大竹路258-1號

報告號碼 : CE/2005/44302
日期 : 2005/04/27
頁數 : 3 of 3



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Test Report

SOLNET METAL INDUSTRY CO., LTD.
9, LANE 83, HWA CHENG RD., HSIN CHUANG, TAIPEI
HSIEN, TAIWAN.

Report No. : CE/2005/53041
Date : 2005/05/24
Page : 1 of 4

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

Type of Product : LEAD-FREE
Style/Item No : M705 (Sn 96.5-3Ag-0.5Cu)
Sample Received : 2005/05/17
Testing Date : 2005/05/17 TO 2005/05/24

=====
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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Report No. : CE/2005/53041
Date : 2005/05/24
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Test Result

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

Test Item (s):	Unit	Method	MDL	Result
				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.

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Test Item (s):	Unit	Method	MDL	Result
				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	299.5

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

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