

環境管理物質材料成份宣告書Declaration of Environment-Related Substances Use/Nonuse

Vender : CHIA CHERNE INDUSTRY CO.,LTD.  
 Responsible Person : Y.P.Kuo  
 Company Address : No.55, Alley 121 ,Lane 175,Kousheng Rd., Changhua City,Taiwan

All components of RoHS or Green sold to buyer and the utilized raw materials, dyes, accessories, packaging materials and manufacturing process contain no hazardous substances which are prohibited by the DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT.

**P/N** : **SEA-A** (mfg:**JACG9CC-2-081**)

**Product Name** : **HEATSINK**

**Heatsink/FAN**

NO.	Part Name	Material Vender	Material Composition	Report
1	Sink / JAH9CC	Cooljag	Copper C1020	CE_2005_86484
2	Screw / JAS102C-1	皇銘五金有限公司	Lead less free cutting brass	CE_2005_50713
3	Spring / JAS102C-2	有澤金屬有限公司	SUS 304	CE_2004_90213
4	Grease / JAP001A	Dow Corning	SC102	CE_2004_71778
5	Cover / JAW102	中國鋼鐵	Al alloy	THJ0013373
6	Screw / JAS003C JAS078C	中國鋼鐵	SAE1018	CE_2005_33614A
7	Back plate / JAT053	春源鋼鐵工業股份有限公司	冷軋鋼捲	CE_2005_11173
8	Back plate mylar / JAT053	敏豐隆	SR53	CE_2004_72868A
9	Fan / JAF404010H1G	Everflow	--	R124010BMAI8A501

**Packing**

NO.	Part Name	Material Vender	Material Composition	Report
1	Blue Box / PBJA08	九禾	--	CE_2004_C1594
2	Fan label / PTJA02	春明印刷	---	CE_2004_82170
2	EPE protected packing JAX0015 JAX0016	光輪	EPE	CE_2005_76060A

Product Photo





**COPY**

13.05.2002

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**CERTIFICATE OF ANALYSIS**

**Customer:**

GWO Chem Industrial Co., Ltd.  
 No. 186-28 Hai Hu Hai Hu Vill  
 Lu Chu Hsiang, Taoyuan  
 TAIWAN R.O.C.

	Net Weight	Gross Weight
342 Billets =	108.284 mts	108.440 mts

Irrevocable Doc. Credit Number 2AEJR27004701059 dated 020419  
 of Bank of Taiwan 248, Chungshan North Road Taipei Taiwan  
 Quantity: 108.284 mts  
 Trade Terms: CIF Keelung

The above mentioned Electrolytic Copper Continuous Cast Billets  
 Brand „NA-Cast“ 150mm x 2000mm Quality: BE58,  
 are conform to Cu-PHC according to DIN EN 1976 and Copper OFXLP  
 according to ASTM B 379, however with an electrical conductivity  
 of 100 % IACS.

**Chemical Composition**

Copper content min. 99.95 % (incl. Ag).

**Electrical Conductivity**

Electrical conductivity min. 100 % IACS.

**Dimensions and Tolerances**

According to ASTM B 379 and NA's catalogue.



13.05.2002

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Page 2

**COPY****CERTIFICATE OF ANALYSIS****Freedom of Embrittlement**

The freedom of embrittlement is tested according to ASTM B 577  
(Closed Bend Test)

**Typical Analysis (ppm):**

Pb	Bi	As	Sb	Sn	Zn	Fe	Ni	Ag	Se	Te	S	P
4	<1	3	3	<1	<3	8	8	10	1	<1	8	appr. 30

The requirements are met.

The aforesaid data are given for purposes of technical quality  
description only and do not constitute guaranteed properties in legal terms.

Copper Products Division  
Marketing and Sales

A handwritten signature in cursive script, appearing to read 'S. Lehmann'.

i.A. S. Lehmann



# Test Report

CHIA CHERNE INDUSTRY CO., LTD.  
 NO. 55, ALLEY 121, LANE 175, KOUSHENG RD.,  
 CHANGHUA CITY, TAIWAN

Report No. : CE/2005/86484  
 Date : 2005/09/05  
 Page : 1 of 2

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


Type of Product : COPPER HEATSINK  
Sample Received : 2005/08/29  
Testing Date : 2005/08/29 TO 2005/09/05

**Test Result**

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

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
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.	---
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	---	N.D.

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

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

## Test Report

CHIA CHERNE INDUSTRY CO., LTD.  
NO. 55, ALLEY 121, LANE 175, KOUSHENG RD.,  
CHANGHUA CITY, TAIWAN

Report No. : CE/2005/86484  
Date : 2005/09/05  
Page : 2 of 2





# Test Report

皇銘五金有限公司  
#248 台北縣五股鄉成泰路3段548巷5號

報告號碼 : CE/2005/50713  
日期 : 2005/05/12  
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 : LEAD LESS FREE CUTTING BRASS  
產品型號 : TB3  
收件日期 : 2005/05/03.  
測試日期 : 2005/05/05 TO 2005/05/12

## 測試結果

測試單位 NO.1 : 銅合金廢料(請參照附件圖片)

測試項目	單位	測試方法	偵測極限值	結果
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS 做分析	2	N.D.
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.
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.
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	23.4

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

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



TW 1827316



JAS102C-2

有澤金屬股份有限公司  
YEOUTZER METALS CO., LTD 品質報告書

DATE OF ISSUE October 5, 2000  
發行日 NO.00044

CONTRACTOR 合約編號			CUSTOMER 客戶名稱 : 敏豐隆企業有限公司		
DESCRIPTION 品名 : STAINLESS STEEL WIRE		TYPE OF STEEL : SUS 304	SIZE 尺寸 : 0.81MM		
NET MASS 淨重 : KG		鋼種名稱 : SUS 304	ORDER NO. 訂單編號		

ELEMENTS 成分	CHEMICAL COMPOSITION 化學成分 (%)									
	C X100	Si X100	Mn X100	P X1000	S X1000	Ni X100	Cr X100	Mo X100	N X100	CU X100
SPECIFICATION 規格	7	42	129	26	2	829	1823	19	4.4	42
HEAT NO. 爐號										

INSPECTION ITEMS 檢查項目	INSPECTION RESULTS 檢查結果		
	SIZE 尺寸	TENSILE STRENGTH 抗張強度	OUT OF ROUNDNESS 外徑
SPECIFICATION 規格	Mm 0.8±0.015	N/mm2 1863 2103	Mm 0.015 MAX
Steel Grade 鋼種名稱	0.796 END	198	0.004

YEOUTZER METALS CO., LTD.



CHUNG YIN SPRIN CO.



# SGS

## Test Report

報告號碼 : CE/2004/90218

日期 : 2004/09/08

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 : AISI, SUS 304  
收件日期 : 2004/09/02  
測試日期 : 2004/09/02 TO 2004/09/08

測試結果 : - 請見下一頁 -

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

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TW1078747

SGS Taiwan Ltd.  
台灣檢驗科技股份有限公司

No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路136-1號  
#1688-2; 2288-3737

www.tai.sgs.com

LOCAL NAME:

NO:

10-05-2005 10:22 0.007



# Test Report

報告號碼 : CE/2004/80213

日期 : 2004/09/08

頁數 : 2 of 2

## 測試結果

測試部位 NO.1

： 鋁包金屬線

測試項目	單位	測試方法	偵測極限值	結果			
				NO.1			
多溴聯苯(FBBs)	%	參考USEPA8860或USEPA8850方法, 以氣相層析儀/電子捕捉偵測器/質譜儀(GC/ECD/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(參考2002/93/EC (RoHS), 83/266/EBC, 76/769/EEC法規)	0.0005	N.D.			
多溴聯苯醚(PBREs/PRDEs)	%	參考USEPA8860或USEPA8850方法, 以氣相層析儀/電子捕捉偵測器/質譜儀(GC/ECD/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(參考2002/93/EC (RoHS), 83/266/EEC, 76/769/EEC法規)	0.0005	N.D.			

測試項目	單位	測試方法	偵測極限值	結果			
				NO.1			
六價鉻	ppm	依照US EPA 7196A及8060A方法	3	N.D.			
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.			
汞	ppm	依照 US EPA 8052 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.			
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	58.2			

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)

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TW 1042770

**SC102**

## HEAT-TRANSFER COMPOUND

SC102 heat-transfer compound is a grease like silicone material heavily filled with heat-conductive metal oxide.

SC102 heat-transfer compound is an improved product that can be used in touch with silicone JCR, where most of silicone heat-transfer compounds cause swelling of JCR. SC102 also shows excellent heat conductivity as well very little oil bleed. SC102 has rather high consistency and it is easy to handle and can be used in many appliances.

**Properties of SC102**

Properties	Unit	SC102
Consistency, penetration un-worked	--	300
Oil bleed (120°C / 24hrs)	%	0.00
Specific Gravity	--	2.45
Thermal Conductivity	Cal / cm <sup>2</sup> sec. C	0.0019
Arc Resistance	sec.	123
Dielectric Constant 60 Hz	--	4.6
1000 Hz	--	4.4
Dissipation Factor 60 HZ	--	0.034
1000 HZ	--	0.024
Volume Resistivity	ohm · cm	4.8 x 10 <sup>14</sup>
Dielectric Strength	kV / 2.5mm	22

## Properties of SC102 in comparison with SH340

Properties	SC102	SH340 <sup>a)</sup>
Swelling of Silicone JCR <sup>b)</sup> Volume increase	0.9%	3.0%
Oil bleed on aluminum plate 120°C / 24hrs	None	observed
Appearance after heating 150°C / 24hrs	No change	No change

a) Conventional silicone heat-transfer compound

b) Cured silicone JCR (SH6101) was immersed in heat-transfer compound at 120°C for 120hrs.

---

### Dow Corning Toray Silicone Co., Ltd.

AIG Bldg. 1-3, Marunouchi 1-chome, chiyoda-ku

Tokyo 100-0005, Japan

TEL: 03-3287 8300

**IMPORTANT NOTICE** :Dow Corning Toray Silicone neither represents nor tests this material for medical device applications or for pharmaceutical end-use.

**NOT FOR HUMAN INJECTION !**

This product is made to industrial grade standards. It is not intended for nor should it be used in medical device applications and pharmaceutical end-use.





# Test Report

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


Report No : CE/2004/71778A  
Date : 2004/07/21  
Page : 1 of 10

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

Type of Product : HEAT TRANSFER COMPOUND  
Style/Item No : DOW CORNING TORAY SC102  
Information Need to be Printed on Report : BATCH:000/893164  
Sample Received : 2002/12/30 & 2004/07/14.  
Testing Date : 2002/12/30 TO 2003/01/09 & 2004/07/14 TO 2004/07/21

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

\* This report is combine with CY/2002/C2491 report \*

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

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# Test Report

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

Report No : CE/2004/71778A  
 Date : 2004/07/21  
 Page : 2 of 10

## Test Result

PART NAME NO.1 : WHITE PASTE

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Carbon tetrachloride	ppm	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.	1	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
CFC's(Chlorofluorocarbons)		With reference to US EPA 8260.						
Group I								
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Group III								
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				

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

Report No : CE/2004/71778A  
 Date : 2004/07/21  
 Page : 3 of 10

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluorocarbons))	1	N.D.				
Methyl chloroform(CAS No.:000071-55-6)	ppm	With reference to US EPA 8260. Analysis was performed by GC/MS linked Headspace.(CFC's(Chlorofluorocarbons))	1	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Chlorinated Paraffin (C10~C13) (CAS NO:010871-26-2)	%	With reference to 83/264/EEC & EPA 8270D. Analysis was performed by GC/MS.	0.01	N.D.				

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Report No : CE/2004/71778A  
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Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Halon		With reference to US EPA 8260.						
Halon-1211(CAS No:000353-59-3)	ppm	Analysis was performed by GC/MS	1	N.D.				
Halon-1301(CAS No:000075-63-8)	ppm	Analysis was performed by GC/MS	1	N.D.				
Halon-2402(CAS No:000124-73-1)	ppm	Analysis was performed by GC/MS	1	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7)	%	With reference to 83/264/EEC. Analysis was performed by GC/MS.	0.0005	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to 83/264/EEC. Analysis was performed by GC/MS.	0.0005	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.				

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Polychlorinated Naphthalene	ppm	With reference to 83/264/EEC & EPA 8270D. Analysis was performed by GC/MS.	5	N.D.				

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# Test Report

SIL-MORE INDUSTRIAL LTD.  
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 TAIPEI COUNTY TAIWAN, R. O. C.

Report No : CE/2004/71778A  
 Date : 2004/07/21  
 Page : 5 of 10

Test Item(s):	Unit	Method	MDL	Result					
				NO.1					
PCTs(Polychlorinated Terphenyls)	ppm	With reference to US EPA 8082,89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.					

Test Item(s):	Unit	Method	MDL	Result					
				NO.1					
Halogen		As per prEN14582 method B.							
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , The absorb solution was analyzed by IC method	50	N.D.					
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , The absorb solution was analyzed by IC method	50	N.D.					
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , The absorb solution was analyzed by IC method	50	N.D.					
Halogen-Iodine (I)(CAS No:007553-56-2)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it , analyzed by ICP	50	N.D.					

Test Item(s):	Unit	Method	MDL	Result					
				NO.1					
PVC free(CAS No:9002-86-2)	**	With reference to ASTM E1252 method. Analysis was performed by FTIR/ATR AND Pyro-GC/MS.	-	Negative					

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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/2004/71778A  
Date : 2004/07/21  
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Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
HCFC's(Hydrogenated chlorofluorocarbons)		With reference to US EPA 8260.						
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-131b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	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/2004/71778A  
Date : 2004/07/21  
Page : 7 of 10

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Hydrochlorofluorocarbon-221	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-223	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-224	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-225ca(CAS No.:000422-56-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-225cb(CAS No.:000507-55-1)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-231	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-232	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-233	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-234	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	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/2004/71778A  
Date : 2004/07/21  
Page : 8 of 10

Test Item(s):	Unit	Method	MDL	Result				
				NO.1				
Hydrochlorofluorocarbon-235(CAS No.:013838-16-9)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-241	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-242	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-244	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-251	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-252	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	N.D.				
Hydrochlorofluorocarbon-271	ppm	Analysis was performed by GC/MS.(HCFC's(Hydrogenated chlorofluorocarbons))	1	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/2004/71778A  
Date : 2004/07/21  
Page : 9 of 10

Test Item(s):	Unit	Method	MDL	Result				
				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	17.6				

- NOTE : (1) N.D. = Not detected.(<MDL)  
(2) ppm = mg/kg  
(3) MDL= Method Detection Limit  
(4) " ---" = Not Applicable  
(5) " -" = Not Regulation  
(6) \* = Results shown are of the adjusted analytical results.  
(7) \*\*= Qualitative analysis(No Unit)  
(8) Negative = Undetectable / Positive = Detectable.

## Test Report

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

Report No : CE/2004/71778A  
Date : 2004/07/21  
Page : 10 of 10





# Test Report

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

Report No. : CM/2004/B0080  
Date : 2004/11/16  
Page : 1 of 1

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

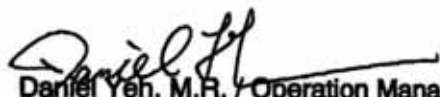
Type of Product : DOW CORNING TORAY SC102  
Sample Received : 2004/11/08  
Testing Date : 2004/11/08 TO 2004/11/16

## Test Result

PART NAME NO.1 : PLEASE REFER TO THE SAMPLE CARD(S).

Test Item (s):	Unit	Method	MDL	Result			
				No. 1			
Bismuth (Bi)	ppm	ICP-AES	2	N.D.			
Indium (In)	ppm	ICP-AES	2	N.D.			

- NOTE :
- (1) N.D. = Not detected (<MDL)
  - (2) ppm = mg/kg
  - (3) MDL = Method Detection Limit
  - (4) " --- " = Not Applicable
  - (5) " - " = No Regulation
  - (6) \* = Results shown are of the adjusted analytical results
  - (7) \*\* = Qualitative analysis (No Unit)
  - (8) Negative = Undetectable / Positive = Detectable

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

# Taiwell

NO:900411

90年03月11

## 品質證明書

客 戶	台輝企業有限公司		
合 金	鍊 度	尺 寸 mm	重 量 Kg
1050	H14	1.0*916*Coil	5397.5

## 機 械 性 能 MECHANICAL PROPERTIES

厚度 mm	鑑 別 號	拉力強度 kg/mm <sup>2</sup>	延 伸 率 %
1.0	6030402	12.17	7
1.0	6030314	12.28	7
1.0	6030401	12.39	8

## 化 學 成 份 CHEMICAL COMPOSITION

厚度 mm	鑑 別 號	Si	Fe	Cu	Mn	Mg	Zn	Cr	Ti	Al
1.0	6030402	0.10	0.26	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	99.6
1.0	6030314	0.10	0.26	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	99.6
1.0	6030401	0.09	0.29	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	99.6

台輝鋁業股份有限公司  
 TAIWELL ALUMINUM CORPORATION  
 總公司：台南縣官田鄉工業路18號  
 TEL: (06)6984525-8 FAX: (06)6985822



APPLICANT: TONG YU INDUSTRY CO., LTD  
NO2-32 LANE 518  
SEC 3 CHUNGSHAN RD  
CHANGHUA CITY CHANGHUA COUNTY 500  
TAIWAN R.O.C.

DATE : JAN 06, 2006

SAMPLE DESCRIPTION:

ONE (1) GROUP OF SUBMITTED SAMPLES SAID TO BE :  
SAMPLE DESCRIPTION : A5052 SERIES + ANODIZING NATURAL COLOR  
DATE SAMPLE RECEIVED : DEC 30, 2005  
DATE TEST STARTED : DEC 30, 2005

\*\*\*\*\*

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGES.

\*\*\*\*\*

PREPARED AND CHECKED BY:  
FOR INTERTEK TESTING SERVICES  
TAIWAN LIMITED



JACOB LIN  
GENERAL MANAGER

TESTS CONDUCTED

(A) TEST RESULT SUMMARY :

<u>TESTING ITEM</u>	<u>RESULT (ppm)</u>
	SUBMITTED SAMPLES
CADMIUM (Cd) CONTENT	ND
LEAD (Pb) CONTENT	ND
MERCURY (Hg) CONTENT	ND
CHROMIUM VI (Cr <sup>6+</sup> ) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION  
 ND = NOT DETECTED

(B) TEST METHOD :

<u>TESTING ITEM</u>	<u>TESTING METHOD</u>	<u>REPORTING LIMIT</u>
CADMIUM (Cd) CONTENT	WITH REFERENCE TO USEPA 3052, BY MICROWAVE DIGESTION AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO USEPA 3052, BY MICROWAVE DIGESTION AND DETERMINED BY ICP-OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO USEPA 3052, BY MICROWAVE DIGESTION AND DETERMINED BY ICP-OES	2 ppm
CHROMIUM VI (Cr <sup>6+</sup> ) CONTENT	WITH REFERENCE TO USEPA 3060A & 7196A, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS	1 ppm

REMARK : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

\*\*\*\*\*  
 END OF REPORT

TESTS CONDUCTED



## 品質證明書

### TEST CERTIFICATE

中國鋼鐵股份有限公司  
 CHINA STEEL CORPORATION  
 中華民國高雄市小港區中興路1號  
 1 CHUNG KANG ROAD HIAO KANG, KAHSI NG  
 TAIWAN, REPUBLIC OF CHINA  
 TEL: (07)892-1111 FAX: (07)892-2511

( INSPECTION CERTIFICATE )

B0021-01 1095

客戶名稱 CUST. NAME	CHUN YU (DONGGUAN) METAL PRODUCTS CO. LTD SONG-NU-SHAN INDUSTRIAL	廠址 ZONE, DALANG COUNTY, DONG GUAN, GUANGDONG, CHINA TEL:769-3310921	產品名稱 SUBJECT	ROB-CARBON STEEL	
規格名稱 SPEC.	SAE 1018, AL-KILLED (HONG1)		發票號碼 INVOICE NO.	892598/ED0092	證明書編號 CERT. NO.
檢驗 TEST	CSC MILL INSPECTION.	T/C	客戶編號 CUSTOMER NO.	89187100	中鋼訂單編號 CSC ORDER NO.
		01 - 00	交運日期 SHIPPING DATE	ON/ABOUT	證明書日期 THE ISSUE DATE
			客戶訂單編號 CSC ORDER NO.		



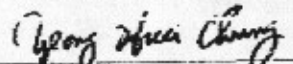
項目 ITEM NO.	產品序號 SEQ. NO.	尺寸及規格 MATERIAL DESCRIPTION					爐號 HEAT NO.	拉伸試驗 T.S. T.S. E			化學成份 CHEMICAL ANALYSIS %							備註 REMARKS	
		直徑/厚 DIA/THICK	寬度 WIDTH	長度 LENGTH	數量 QTY	質量 MASS		降伏 Y.S.	抗拉 T.S.	伸長 E	C	MN	P	S	SI	CU	CR		MO
SPECIFICATION																			
005	DD230 01	5.50		COIL	3	4,450	1K500												
	DD301 01					31 45,974	3Z836												
			TOTAL:			34 49,830													

註釋  
NOTES

\*(1) CHEMICAL ANALYSIS IS CARRIED OUT BY CSC IN ACCORDANCE WITH TEST METHOD ASTM E415 AND E1019 WHICH CONFORM TO METAL STANDARDS AND SPECIFICATIONS.  
 \*(2) TEST SAMPLES ARE DISC TYPE. (3) TEST REPORT RELATES ONLY TO THE SAMPLES BEING TESTED AND THAT SHALL NOT BE PARTIALLY REPRODUCED.

茲證明本廠所製產品，均係依照規格製造及試驗，其符合規格之要求。  
 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

CHIEFMAN TO

  
 冶金技術處處長  
 GENERAL MANAGER, METALLURGICAL DEPARTMENT



## Test Report

文豪工業有限公司

\*242 台北縣新莊市中正路508巷35弄66-16號

報告號碼 : CE/2005/33614A

日期 : 2005/03/23

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	:	螺絲產品
產品型號	:	材質SAE 1018電鍍鍍
收件日期	:	2005/03/16.
測試日期	:	2005/03/16 TO 2005/03/23

測試結果

- 請見下一頁 -

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

## Test Report

文豪工業有限公司  
\*242 台北縣新莊市中正路508巷35弄66-16號

報告號碼 : CE/2005/33614A  
日期 : 2005/03/23  
頁數 : 2 of 3

### 測試結果

測試部位 NO.1

銀色金屬螺絲(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
多溴聯苯(PBBs)	%	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.
多溴聯苯醚(PBBEs/PBDEs)	%	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.

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 7196A及3060A方法	2	N.D.
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.
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.
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	18.1

- 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)



# Test Report

文象工業有限公司

\*242 台北縣新莊市中正路508巷35弄66-16號

報告號碼 : CE/2005/33614A

日期 : 2005/03/23

頁數 : 3 of 3

**CE / 2005  
/ 33614**



JAT055  
JAT066

材料保證書

0908



CHINA STEEL CORPORATION

1 Chung Kang Road, Haiao Kang, Kaohsiung 81233, Taiwan

高雄港小港區中興路1號

Tel: 886 (7) 802-1111 轉 3821 Fax: 886 (7) 805-1292

e-mail address: t2051391@mail.csc.com.tw

To: 春源鋼鐵工業股份有限公司

日期: 2004/9/6

### 「有害物質」化學成分證明書

本公司對於供應貴公司之下列產品，其有害物質含有量之狀況，經分析、確認，保證如下表所示。

產品名稱: 冷軋鋼捲

材質符號: SPCC-SD ; SPGD-SD ; SPCE-SD ; SPCE (EDD) ; SPCC-2D ; CM-1 ; CF370R ;  
CF390R ; CF440R ; SPFC490 ; SPFC590 ; S350M ; S500M ; SAE1060 ; SAE4130 ;  
SAE4135 ; SPP

有害物質名稱		含有量(mg/kg)
重金屬	1). 鎘及鎘化合物(Cadmium and its compounds)	N.D.
	2). 鉛及鉛化合物(Lead and its compounds)	Max. 70
	3). 汞及汞化合物(Mercury and its compounds)	N.D.
	4). 六價鉻化合物(Hexavalent Chromium comp.)	N.D.
有機溴系化合物	5). 多溴聯苯(PBB)	0
	6). 多溴二苯醚(PBDE)	0

註: 1. 上表中 1). ~ 6). 項為歐盟 RoHS 指令限制禁用之物質, RoHS 指令對鉛、汞、六價鉻、PBB 及 PBDE 之濃度建議為 Max. 1000ppm, 鎘為 Max. 100ppm。  
2. N.D. = Not detected (小於檢測極限值 2ppm 以下, ppm = mg/kg)

林建安

冶金技術處  
冶金規範及試驗組組長

## Test Report

金瑋鍍金工業有限公司  
\*241 台北縣三重市光華路35號

報告號碼 : CE/2005/11173  
日期 : 2005/01/17  
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 : 零件、配件  
收件日期 : 2005/01/10.  
測試日期 : 2005/01/10 TO 2005/01/17

### 測試結果

測試部位 NO.1 : 銀灰色金屬(請參照附件圖片)

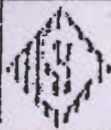
測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 7196A及3060A方法	2	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.

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)

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

★ Sample to be returned as requested ★





# SKC

## "Skyro<sup>®</sup>" SKC Polyester Film

JAT063  
 JAT066  
 JAT067  
 MWLAB  
 PM MWLAB  
 PM MWLAB

### SR53

### Product Information

#### a) Product Description

"Skyro<sup>®</sup>" SR53 is a milky white and hazy polyester film for general motor, hermetic motor, compressor sealed units, fractional horsepower motors, diaphragms and industrial laminations.

SR53 has outstanding mechanical and dielectric strength, durability, dimensional stability, low water absorption, good resistance to chemical attack.

SR53 retains these properties over a wide range of temperature and humidity.

#### b) Typical Properties

Property	Unit	Value										Test Method	
		300	400	500	600	752	900	1000	1200	1400			
General													
Nominal Thickness	Gauge ( )	300 (75)	400 (100)	500 (125)	600 (150)	752 (188)	900 (225)	1000 (250)	1200 (300)	1400 (350)		SKC Method	
Mechanical													
Tensile Strength	( Kg/mm <sup>2</sup> ) MD	20	20	22	20	20	18	18	18	17		ASTM D 882	
	TD	26	25	24	22	22	22	21	20	19			
Elongation At Break	% MD	200	210	200	200	240	250	250	250	250		ASTM D 882	
	TD	120	120	120	120	130	150	150	170	170			
Electrical													
Dielectric Strength	Kv	13	15	16	17	19	21	21	24	25		ASTM D 149	
Optical													
Haze	%	35	43	49	60	65	77	77	85	89		ASTM D 1003	
Thermal													
Heat Shrinkage	% MD	150°C x 30min					190°C x 20min					SKC Method	
	TD	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.0	2.0			
		0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0			

Unit Correlation : N/mm<sup>2</sup> = Kg/mm<sup>2</sup> X 9.8

psi = Kg/mm<sup>2</sup> X 1422.3

SKC-TPS-F-0

This information is the best currently available on the subject. The results should, however, only be regarded as a general guide to material properties and not as a guarantee. Some of the properties can be changed by the efforts of supplier to improve the quality or production efficiency of the subject.



## Test Report

敏豐隆企業有限公司

報告號碼 : CE/2004/72868A

日期 : 2004/07/28

頁數 : 1 of 1

以下測試樣品乃供應廠商所提供及確認 :

樣品名稱 : MYLAR  
 產品型號 : S10  
 收件日期 : 2004/07/21.  
 測試日期 : 2004/07/21 TO 2004/07/28

### 測試結果

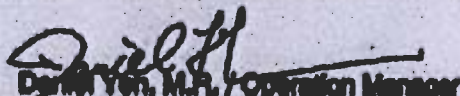
測試部位 NO.1 : 透明白色塑膠片

測試項目:	單位	測試方法	偵測極限值	結果			
				NO.1			
六價鉻	ppm	依照US EPA 7196A及3060A方法	2	N.D.			
鎳	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.			
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.			
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	N.D.			
硫	%	元素分析儀	0.01	0.33			

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

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# SPECIFICATIONS

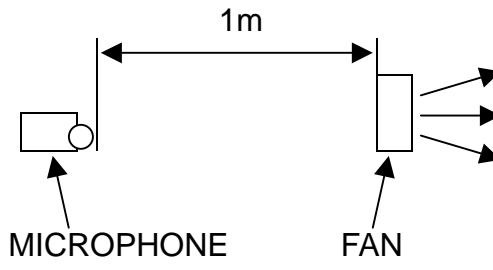
<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> R124010BM AI	<b>PAGE:</b> 1 OF 4
---------------------------------	----------------------------------	------------------------

THESE SPECIFICATIONS DEFINE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS FAN.

**1. MECHANICAL SPECIFICATIONS**

- |                         |                                |
|-------------------------|--------------------------------|
| 1-1 EXTERNAL DIMENSIONS | : REFER TO DWG. NO. HT-001     |
| 1-2 HOUSING MATERIAL    | : LEAD-FREE PLASTIC {UL 94V-0} |
| IMPELLER MATERIAL       | : LEAD-FREE PLASTIC {UL 94V-0} |
| 1-3 BEARING             | : TWO BALL BEARINGS            |
| 1-4 NET WEIGHT          | : 15g                          |

**2. ELECTRICAL SPECIFICATIONS**

NO	ITEMS	STANDARD	REMARKS
2-1	RATED VOLTAGE	12 V DC	
2-2	START VOLTAGE	7 V DC	POWER ON/OFF
2-3	OPERATING RANGE	7 V~13.2 V DC	
2-4	CONSUMING CURRENT	0.12 Amp (MAX. 0.14 Amp)	IN FREE AIR AT RATED VOLTAGE
2-5	CONSUMING POWER	1.44 W (MAX. 1.68 W)	IN FREE AIR AT RATED VOLTAGE
2-6	RATED SPEED	6000rpm ± 10%rpm	IN FREE AIR AT RATED VOLTAGE
2-7	AIRFLOW	MAX. 4.64 CFM MAX. 0.13 m <sup>3</sup> /min	AT RATED VOLTAGE AT ZERO STATIC PRESSURE
2-8	STATIC PRESSURE	MAX. 2.87 mmH <sub>2</sub> O	AT RATED VOLTAGE AT ZERO AIRFLOW
2-9	SOUND LEVEL	26.9 dB(A)	IN FREE AIR AT RATED VOLTAGE  

<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2005/08/08</b>	<b>LIANG HAI HU 2005/08/08</b>	<b>HAI YING YANG 2005/08/08</b>



# SPECIFICATIONS

<b>TYPE</b>	<b>MODEL NO.</b>	<b>PAGE:</b>		
<b>DC BRUSHLESS FAN</b>	<b>R124010BM AI</b>	<b>2 OF 4</b>		
2-10	OPERATING TEMPERATURE	-10 ~70 (NORMAL HUMIDITY)		
2-11	STORAGE TEMPERATURE	-20 ~75 (NORMAL HUMIDITY)		
2-12	DIRECTION OF ROTATION	CLOCKWISE FROM LABEL SIDE		
2-13	DIRECTION OF AIRFLOW	LABEL SIDE DISCHARGE		
2-14	INSULATION STRENGTH	10 MEG OHM MIN.	AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)	
2-15	DIELECTRIC STRENGTH	MUST WITHSTAND 500 VAC 1min	MAX 1mA BETWEEN FRAME AND LEADS	
2-16	PROTECTION	IMPEDANCE PROTECTION		
2-17	DROP TEST	IN MINIMUM PACKAGING CONDITION, FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ON TO 10mm THICKNESS OF WOODEN BOARD.		
2-18	MECHANICAL SHOCK	TEMPERATURE : +25°c. ORIENTATION : X , Y , Z . POWER : NON-OPERATING., ACCELERATION : 20G MIN. PULSE : 11 MS HALF-SINE WAVE. NUMBER OF SHOCKS : 5 SHOCKS FOR EACH DIRECTION.		
<p>NOTE 1. THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25 ) AND NORMAL HUMIDITY (60~65%) UNLESS OTHERWISE NOTICED.</p>				
<p><b>EVERFLOW PRECISION ELECTRON CO., LTD</b></p>		<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
		<p><b>LIU CHUN XIANG 2005/08/08</b></p>	<p><b>LIANG HAI HU 2005/08/08</b></p>	<p><b>HAI YING YANG 2005/08/08</b></p>

# SPECIFICATIONS

<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> R124010BM AI	<b>PAGE:</b> 3 OF 4
---------------------------------	----------------------------------	------------------------

**3.LIFE EXPECTANCE (MTBF)**

MORE THAN 90% SHALL KEEP RUNNING AFTER CONTINUOUS OPERATION OF 50,000 HOURS AT RATED VOLTAGE IN 25 °C AMBIENT TEMPERATURE AND 65% RELATIVE HUMIDITY CONDITION.

FAN LIFE SHOULD BE REDEFINED WHEN ABOVE CONDITIONS ARE CHANGED.

**4.LOCKED ROTOR**

THIS DC FAN CAN NOT BE LOCKED WHEN IT IS RUNNING.

**5.SPECIAL ITEMS**

**5-1 SPECIFICATION CHANGE**

ANY CHANGES TO THE PARAMETERS SPECIFIED IN THIS DOCUMENT WILL BE DETERMINED BY MUTUAL AGREEMENT ON BOTH PARTIES.

**5-2 UNCERTAINTY**

IN THE EVENT THAT ANY QUESTIONS MAY ARISE ABOUT THIS DOCUMENT OR ANY STATEMENTS NOT SPECIFIED IN THIS DOCUMENT BOTH PARTIES WILL DISCUSS AND DETERMINE A SOLUTION FAITHFULLY.

**5-3 NOTE**

1.PLEASE CONSIDER HAVING AN INDEPENDENT PROTECTION SYSTEM IN THE EVENT THAT THE FAN SHOULD STOP OPERATING.

2.PLEASE MAKE REFERENCE TO ATTACHED IMPORTANT NOTES & GENERAL INSTRUCTIONS AND DWG.No.:HT-001 TOGETHER WITH THIS SPECIFICATION.

<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2005/08/08</b>	<b>LIANG HAI HU 2005/08/08</b>	<b>HAI YING YANG 2005/08/08</b>

# SPECIFICATIONS

<b>TYPE</b> DC BRUSHLESS FAN	<b>MODEL NO.</b> R124010BM AI	<b>PAGE:</b> 4 OF 4
---------------------------------	----------------------------------	------------------------

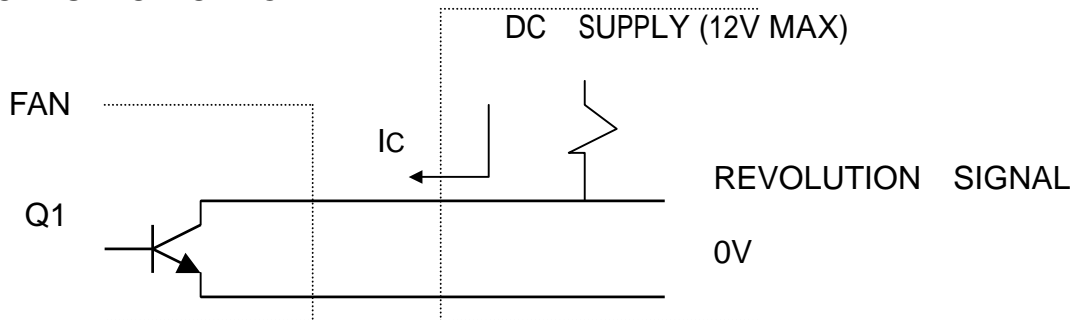
## 6. PROVISION OF REVOLUTION SIGNAL

### 6-1 OUTPUT OF REVOLUTION SIGNAL

.OUTPUT TYPE

OPEN COLLECTOR TYPE

.ELECTRICAL SPECIFICATION



TRANSISTOR Q1 AT "ON" POSITION  
 COLLECTOR CURRENT SATURATION VOLTAGE  
 BETWEEN COLLECTOR AND EMITTER  
 AT  $I_c = 10\text{mA MAX.}$   
 TRANSISTOR Q1 AT "OFF" POSITION  
 RELEASE VOLTAGE

$I_c = 10\text{ mA MAX.}$   
 $V_{OL} = 0.5\text{V MAX.}$

$V_{OH} = 12\text{V MAX}$

### 6-2 OUTPUT WAVEFORM

(ACCORDING TO INPUT VOT.)

(AT REVOLUTION)

(AT LOCKED POSITION)



REMARK: AT LOCKED POSITION, OUTPUT BECOMES  $V_{OH}$  OR  $V_{OL}$

$T = T_1 + T_2 + T_3 + T_4 = 60/N$  (SEC)     $N$  : FAN SPEED (r.p.m)

$$\text{DUTY} = \frac{T_1}{T_1 + T_2} = 50 \pm 10\%$$

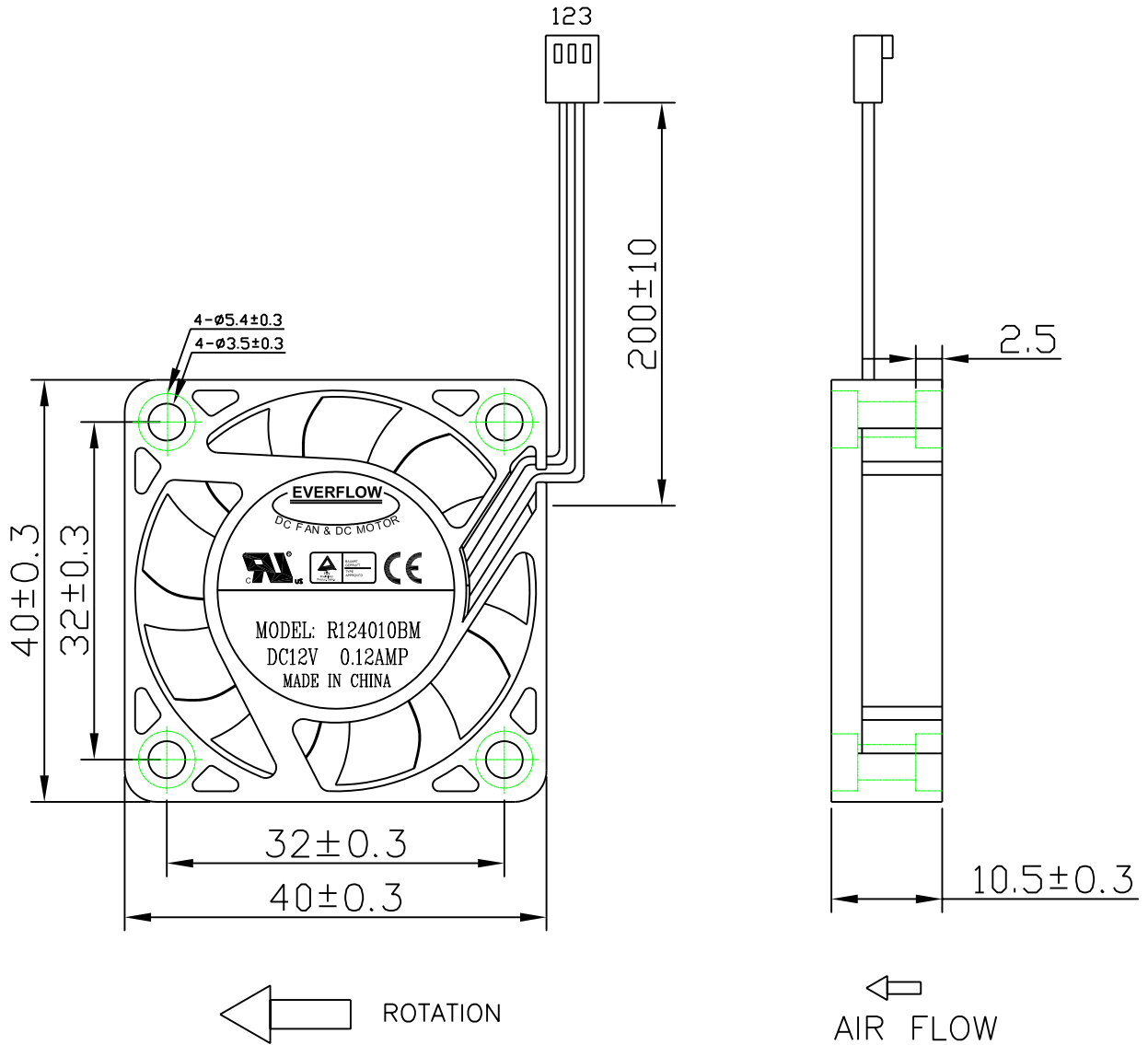
<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2005/08/08</b>	<b>LIANG HAI HU 2005/08/08</b>	<b>HAI YING YANG 2005/08/08</b>

# SPECIFICATIONS

## **IMPORTANT NOTES & GENERAL INSTRUCTIONS**

1. Customer shall confirm the matching and reliability of fan on actual set or unit application.  
This include confirmation on set or unit life, electrical noise, mechanical noise, vibration, static electricity, electric power noise, drift, electric resonance between motor and control circuit, mechanical resonance between motor and chassis, irregular movement of set due to motor noise, irregular movement of set in strong electromagnetic field, damaged by lightning surge earthing method etc.
2. Any revisions on the specification shall be done based on mutual discussion and agreement.
3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.
4. Any item which is needed to add into specification shall be determined on customer's prior written request. If no information given, fan will be delivered based on our standard judgment.
5. When any trouble occurs, both parties shall discuss on this specification to solve the matters. In this case, our guarantee is only limited to fans.

<b>EVERFLOW PRECISION ELECTRON CO., LTD</b>	<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>
	<b>LIU CHUN XIANG 2005/08/08</b>	<b>LIANG HAI HU 2005/08/08</b>	<b>HAI YING YANG 2005/08/08</b>



NOTES:

- LEAD WIRE UL 1007 28AWG OR EQUIVALENT  
 PIN 1: BLACK WIRE---(-)  
 PIN 2: RED WIRE---(+)  
 PIN 3: YELLOW WIRE---(SIGNAL)
- HOUSING: 2510-3P OR EQUIVALENT
- TERMINAL: 2515T OR EQUIVALENT

TRCANGLE METHOD		UNIT: mm		MODEL NO.	R124010BM (AI8A501)
APPROVE	LIU CHUN XIANG	2005/08/08	✘	PART NAME	DC FAN
CHECK	LIANG HAI HU	2005/08/08		DRAWING NAME	OUTLINE
DRAWING	HAI YING YANG	2005/08/08			
EVERFLOW PRECISION ELECTRON CO.,LTD.			CODE	HT - 001	PAGE: 1







**Test Report**

No.: SZTYR0504112404P

Date: APR 20, 2005

Page 2 of 2

**Test Results**

Element	Black plastic parts
1) Lead (Pb)	5 ppm
2) Cadmium (Cd)	< 2 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm

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

5) Content of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers)

Flame Retardants	Black plastic parts	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Monobromobiphenyl	N.D.	5 ppm
Dibromobiphenyl	N.D.	5 ppm
Tribromobiphenyl	N.D.	5 ppm
Tetrabromobiphenyl	N.D.	5 ppm
Pentabromobiphenyl	N.D.	5 ppm
Hexabromobiphenyl	N.D.	5 ppm
Heptabromobiphenyl	N.D.	5 ppm
Octabromobiphenyl	N.D.	5 ppm
Nonabromobiphenyl	N.D.	5 ppm
Decabromobiphenyl	N.D.	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>	---	---
Monobromodiphenyl ether	N.D.	5 ppm
Dibromodiphenyl ether	N.D.	5 ppm
Tribromodiphenyl ether	N.D.	5 ppm
Tetra-bromodiphenyl ether	N.D.	5 ppm
Penta-bromodiphenyl ether	N.D.	5 ppm
Hexabromodiphenyl ether	N.D.	5 ppm
Heptabromodiphenyl ether	N.D.	5 ppm
Octabromodiphenyl ether	N.D.	5 ppm
Nonabromodiphenyl ether	N.D.	5 ppm
Decabromodiphenyl ether	N.D.	5 ppm

Note : - N.D. = Not Detected  
- Not detected is lower than detection limit value.  
- The test of 5) was conducted by SGS SZ LTD.

\*\*\* End of Report \*\*\*

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SZL 324657

SGS (China) Limited  
12th Floor, Lujiazui

25/F, 38, Daire Building, Dongyuan Road, Shanghai, P.R. China 200001 TEL: 86-21-58901146 FAX: 86-21-58901110 [www.sgs.com](http://www.sgs.com)

Member of SGS Group/Société Générale ou filiales

MYLAR 样品

SGS

## Test Report

No.: GZSCR050533111/LP

Date: JUN 02, 2005

Page 1 of 4

TSUEN JYI PLASTIC CO., LTD.  
SECOND INDUSTRIAL PARK,  
JIANGBEI VILLAGE, WUSHA PRECINCT,  
CHANGAN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P.R.CHINA

Report on the submitted sample specification: MYLAR (PET)

SGS Ref No. : GZ050505871EC-9.3  
Buyer : SONY  
Sample Receiving Date : MAY 27, 2005  
Testing Period : MAY 27, 2005 TO JUN 02, 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 7195A: 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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GZCM 2633/1



# SGS

## Test Report

No.: GZSCR050533111/LP

Date: JUN 02, 2005

Page 2 of 4

## Results:

(1)

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

Beige plastic sheet

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

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

(2)

Flame Retardants	Beige plastic sheet	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
<b>Polybrominated Diphenylether (PBDEs)</b>		
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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GZCM 263370





## Test Report

No.: GZSCR050533111/LP

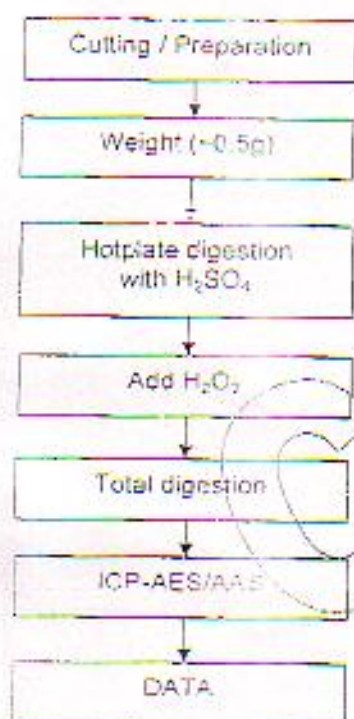
Date: JUN 02, 2005

Page 3 of 4

## ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content):



COPY

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

Operator : Sams Deng  
Leader : Joe Li

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GZCM 263369



# SGS

## Test Report

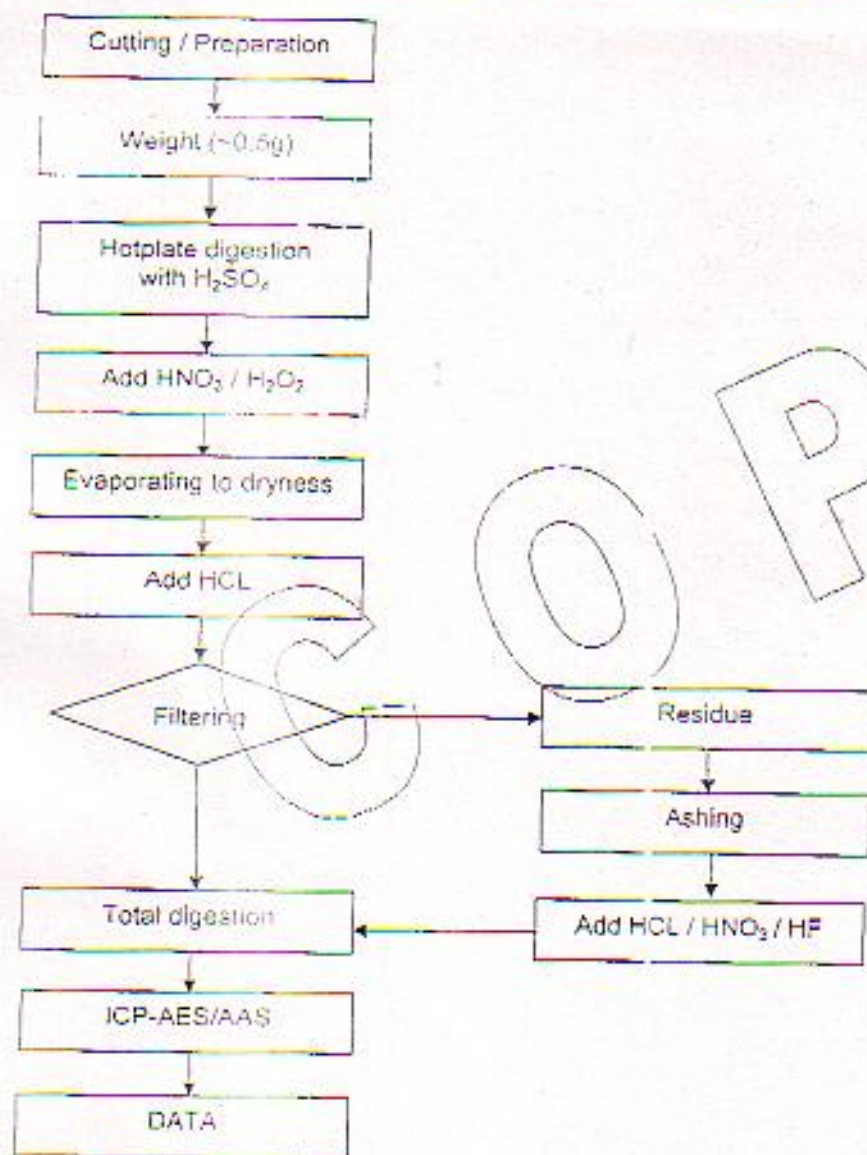
No.: GZSCR0505331111/LP

Date: JUN 02, 2005

Page 4 of 4

(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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GZCM 2533118



MYLAR 样品

SGS

## Test Report

No.: GZSCR050533111/LP

Date: JUN 02, 2005

Page 1 of 4

TSUEN JYI PLASTIC CO., LTD.  
SECOND INDUSTRIAL PARK,  
JIANGBEI VILLAGE, WUSHA PRECINCT,  
CHANGAN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P.R.CHINA

Report on the submitted sample specification: MYLAR (PET)

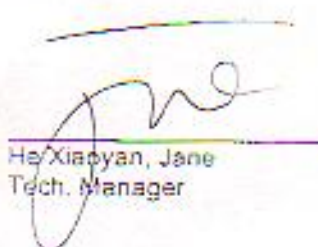
SGS Ref No. : GZ050505871EC-9.3  
Buyer : SONY  
Sample Receiving Date : MAY 27, 2005  
Testing Period : MAY 27, 2005 TO JUN 02, 2005

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 7195A: 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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GZCM 2633/1



# SGS

## Test Report

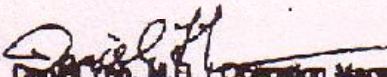
To: 陳麗華小姐  
From: 宋瑞鴻 楊捷

Date : 2005/01/07  
Page : 1 of 3

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

Type of Product : ON SEMICONDUCTOR SOT-23 PACKAGE  
Sample Received : 2005/01/05  
Testing Date : 2005/01/05 TO 2005/01/07

Test Result : - Please see the next page -

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

076P3727163

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NO. 13661, Wu-Kung Road, Wu-Ku Industrial Zone, Taipei County, Taiwan  
(886-2) 2923339 / (886-2) 299-3237 www.sgs.com.tw



# SGS

## Test Report

Date : 2005/01/07  
Page : 2 of 3

PART NAME NO.1 : PLEASE REFER TO THE PHOTO(S) ATTACHED (MIXED ALL PARTS)

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
PBDEs(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.			

Test Item (s):	Unit	Method	MDL	Result			
				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	N.D.			

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

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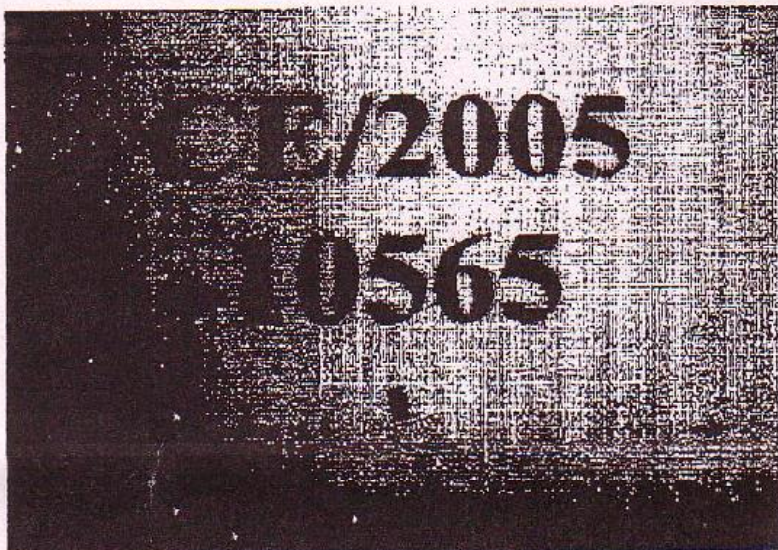
NO. 106-1, Wu-Kung Road, Wu-Ku Industrial Zone, Taipei county, Taiwan.  
 (886-2) 2290-9391 (886-3) 2293-2437 www.sgs.com.tw



# SGS

## Test Report

Date : 2005/01/07  
Page : 3 of 3



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嘉義 (平溪) 11/1



Chemical Laboratory - KAO, SGS Taiwan Ltd.

TEST REPORT

REPORT NO. KA0204/C0460/A-1  
DATE: 2004/12/21  
PAGE: 1 OF 1

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

CLIENT : TZUNG HSIEN TECHNOLOGY CO., LTD.  
PRODUCT DESCRIPTION : ENVIRONMENTAL PROTECTION A BALANCED BARTH. (A/B/C/D)  
TESTING DATE : 2004/12/14 TO 2004/12/21.  
SAMPLE RECEIVED : 2004/12/14.

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

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
BARIUM	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	2500
CADMIUM <i>Ca</i>	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT EN 1122, METHOD B-2001.	2	n.d.
CHROMIUM	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	n.d.
CHROMIUM VI <i>Cr<sup>VI</sup></i>	ppm	ANALYSIS BY US EPA 7190A WITH ADVANCE TREATMENT US EPA 3060A.	2	n.d.
MERCURY <i>Hg</i>	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3052	2	n.d.
LEAD <i>Pb</i>	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	1.1
PBBs	%	WITH REFERENCE TO 83/281EEC ANALYSIS WAS PERFORMED BY GGT/COMS OR HPLC/DAD/MS.	0.0015	n.d.
PBDEs	%	WITH REFERENCE TO 83/281EEC ANALYSIS WAS PERFORMED BY GGT/COMS OR HPLC/DAD/MS.	0.0015	n.d.

NOTE: n.d. = not detected.

<END>



*H. Tsai*  
George Huang / Supervisor  
Sign for and on behalf of  
SGS Taiwan Limited

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TW 1256762

SGS Taiwan Ltd. | No. 108, Chung Hwa 2nd Road, San-Hua District, Keelung, Taiwan / 基隆市仁愛區中二路108號  
台灣檢驗科技股份有限公司 | 108-11 312610 | 108-11 312 610 | www.sgs.com.tw

60'4 21:2 50, 61 100





丰盛

SGS

品保/肖小姐

Test Report

No.: SZTYR050645846/LP

Date: MAY 25, 2005

Page 1 of 3

PROSPERITY WIRE AND CABLE CO., LTD  
FULL METAL WORK CO., LTD.  
YINHU INDUSTRY AREAS, SHI SHUI KOU,  
QIAO TOU TOWN, DONG GUAN CITY, GUANG DONG

Report on the submitted samples said to be COATED WIRES

Sample Receiving Date : MAY 20, 2005  
Testing Period : MAY 20, 2005 TO MAY 25, 2005

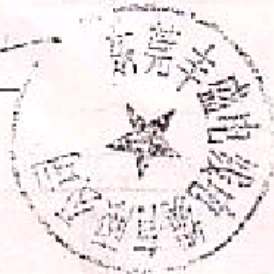
Test Requested : 1) Determination of Lead content in the submitted sample.  
2) Determination of Cadmium content in the submitted sample.  
3) Determination of Mercury content in the submitted sample.  
4) Determination of Hexavalent Chromium content in the submitted sample.  
5) Determination of PBBs (Polybrominated biphenyls) and PBDEs (Polybrominated diphenylethers) contents in the submitted sample.

Test Method : 1) With reference to EPA 3050B:1996 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).  
2) With reference to EN 1122:2001 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).  
3) With reference to EPA Method 3052: 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
4) With reference to EPA Method 3050A: 1996 and then analyzed by colorimetric method 7196A: 1992.  
5) With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Lin Shuchen, Sara  
Dept. Manager



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3F, JF&F, Qianhai Building, Zhongkang Road, Changmulin, Shenzhen, China 518049 | Tel: 75583114251 | Fax: 75583106150 83110634 | www.cn.sgs.com

Member of SGS Group (Société Générale de Surveillance)





Test Report

No.: SZTYR050645846/LP

Date: MAY 25, 2005

Page 2 of 3

Test Results

Element	Coppery color metal wire w/ transparent lacquer coating on surface
1) Lead (Pb)	< 2 ppm
2) Cadmium (Cd)	< 2 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm

Note : - < = Less than  
 - ppm = mg/kg

5)

Flame Retardants	Coppery color metal wire w/ transparent lacquer coating on surface	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Monobromobiphenyl	N.D.	5 ppm
Dibromobiphenyl	N.D.	5 ppm
Tribromobiphenyl	N.D.	5 ppm
Tetrabromobiphenyl	N.D.	5 ppm
Pentabromobiphenyl	N.D.	5 ppm
Hexabromobiphenyl	N.D.	5 ppm
Heptabromobiphenyl	N.D.	5 ppm
Octabromobiphenyl	N.D.	5 ppm
Nonabromobiphenyl	N.D.	5 ppm
Decabromobiphenyl	N.D.	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>	---	---
Monobromodiphenyl ether	N.D.	5 ppm
Dibromodiphenyl ether	N.D.	5 ppm
Tribromodiphenyl ether	N.D.	5 ppm
Tetrabromodiphenyl ether	N.D.	5 ppm
Pentabromodiphenyl ether	N.D.	5 ppm
Hexabromodiphenyl ether	N.D.	5 ppm
Heptabromodiphenyl ether	N.D.	5 ppm
Octabromodiphenyl ether	N.D.	5 ppm
Nonabromodiphenyl ether	N.D.	5 ppm
Decabromodiphenyl ether	N.D.	5 ppm

Note : - N.D. = Not Detected, which is lower than detection limit value.  
 - Results shown are total weight of dry sample.

\*\*\*\*\*

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3/F, F5/F, Qian Building, Zhongyuan Road, Jiangmen, Shenzhen China 518048 | (86-755)83114351 | (35-755)83106100 83118534 | [www.cn.sgs.com](http://www.cn.sgs.com)

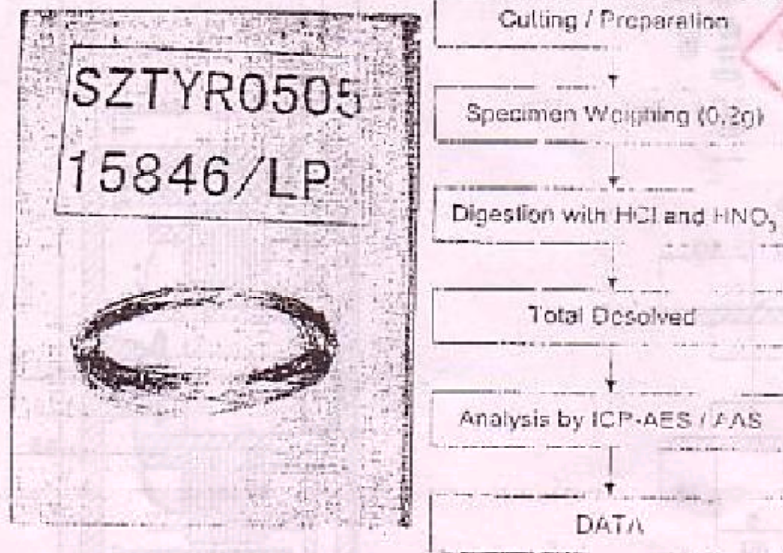
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19 07 2005 09:11 FAX



Appendix:

Flow chart of digestion (Acid digestion for lead and cadmium content in metallic sample)



The submitted sample(s) were dissolved totally by pre-conditioning method according to above flow chart.

Operated by: Vincent Li  
Checked by: Adams Yu

\*\*\* End of Report \*\*\*

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SGS

**Test Report**

No.: GZSCR050425907/LP

Date: MAY 10, 2005

Page 1 of 1

TSUEN JYI PLASTIC CO., LTD.  
SECOND INDUSTRIAL PARK, JIANG BEI VILLAGE,  
WU SHA PRECINCT, CHANG AN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P.R.CHINA

Report on the submitted sample said to be 镀锌板

SGS Ref No. : GZ050404670EC  
Buyer : SONY  
Sample Receiving Date : APR 29, 2005  
Testing Period : APR 29, 2005 TO MAY 09, 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 Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

**RESULTS**

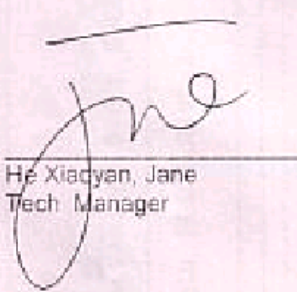
Lead Content (Pb)(ppm)	5
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Silvery metal plate

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

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

  
He Xiacyan, Jane  
Tech Manager

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GZCM 251211

4/F, Block B, Yu Jing Industrial Park, Ling Shan Road, Zhu Cai Dong Pu Area, Tazho District, Guangzhou, China 510661 (86-20) 82169300 (86-20) 82169308 [www.sgs.com](http://www.sgs.com)  
中国·广州·天河区东圃珠村灵山路裕泰工业园八栋四楼 邮编: 510660 (86-20) 82169300 (86-20) 82169308 [sgs-china@sgs.com](mailto:sgs-china@sgs.com)

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# Test Report

No.: SZTYR050827193/LP

Date: AUG 15, 2005

Page 1 of 1

CHANG YI STEEL LAMINATION PRESS FACTORY  
CUN-WEI INDUSTRIAL AREA, HENG-LI TOWN,  
DONG-GUAN, GUANG-DONG, CHINA

Report on the submitted samples said to be SI-STEEL

Sample Receiving Date : AUG 12, 2005  
Testing Period : AUG 12, 2005 TO AUG 15, 2005

Test Requested : 1) Determination of Lead content in the submitted sample.  
2) Determination of Cadmium content in the submitted sample.  
3) Determination of Mercury content in the submitted sample.  
4) Determination of Hexavalent Chromium content in the submitted sample.

Test Method : 1) With reference to EPA 3050B:1996 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).  
2) With reference to EN 1122:2001 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).  
3) With reference to EPA Method 3052: 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
4) With reference to EPA Method 3060A: 1996 and then analyzed by colorimetric method 7196A: 1992.

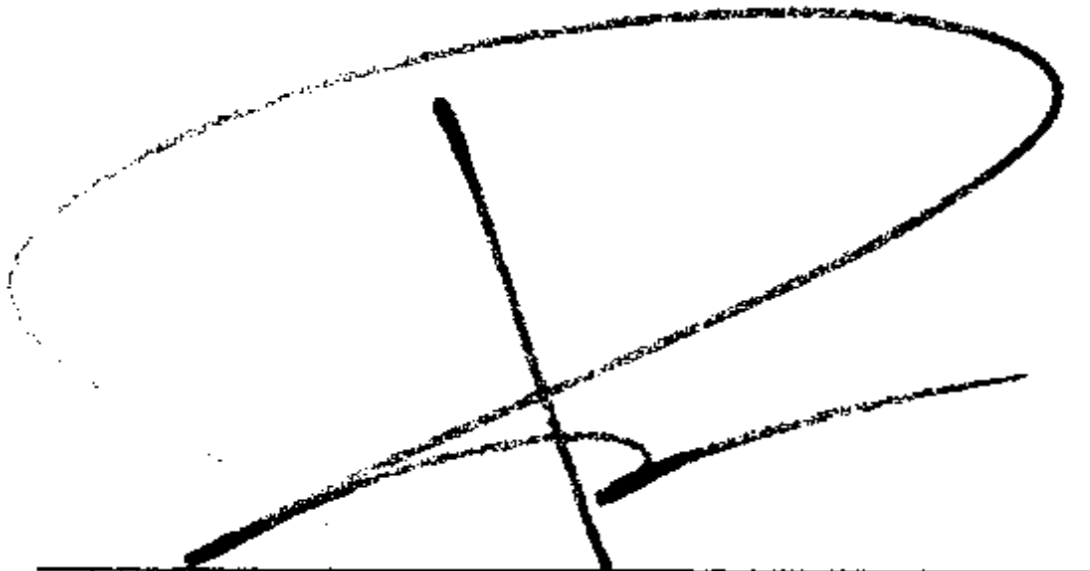
## Test Results :

<u>Element</u>	<u>Silvery color metal part</u>
1) Lead (Pb)	41 ppm
2) Cadmium (Cd)	< 2 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm

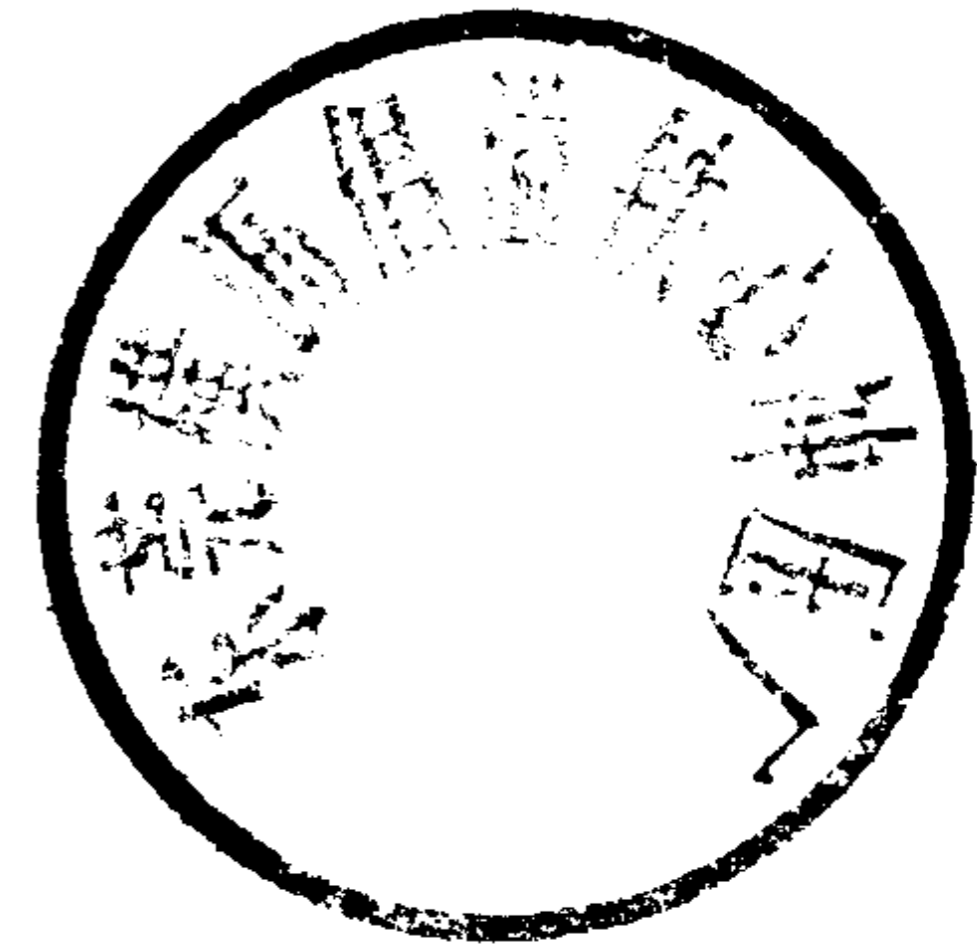
Note : - < = Less than  
- ppm = mg/kg  
- Results shown are of the total weight of dry sample.

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.



Lin Shuzhen, Dora  
Dept. Manager



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371373



H/2

### Test Report

No.: SZTYR050100527/LP

Date: JAN 13, 2005

Page 1 of 1

DONG GONG METAL FITTINGS (SHENZHEN) CO., LTD.  
BEI BIAN BEI INDUSTRIAL AREA, SONGGANG VILLAGE,  
SONGGANG TOWN, BAOAN DISTRICT, SHENZHEN, CHINA

Report on the submitted sample said to be SHAFT

Item No. : DG-2005 (KOS-SUS420F03mm)  
Sample Receiving Date : JAN 10, 2005  
Testing Period : JAN 10, 2005 TO JAN 13, 2005

Test Requested : To determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

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

#### Results

	Silvery color metal shaft
Lead Content (ppm) 鉛	23
Cadmium Content 鎘	N.D.
Mercury Content 汞	N.D.
Hexavalent Chromium Content 鉻 <sup>VI</sup>	N.D.

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

Zhang Yanzheng, Helen  
Section Manager

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Shenzhen Branch-Lab

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SZL 300886

陈生盖

SGS

For NMB ball bearing (NMB轴承)

测试报告

No. SH504893/ CHEM

Date: 1.28.2005

Page 1 of 2

上海美蓓亚精密机电有限公司  
上海市青浦区沪青平公路 8313 号

委托检验的样品及申请者对样品的说明如下:

样品名称 : 轴承  
SGS 相关号 : SHEC0050101446-2  
材质 : SECC

样品收到日期 : 2005-01-25  
样品试验日期 : 2005-01-25—2005-01-28

试验要求 : 1) 测定委托样品的镉含量  
2) 测定委托样品的铅含量  
3) 测定委托样品的汞含量  
4) 测定委托样品的六价铬含量

试验方法 : 1) 参照 BS EN 1122:2001 方法 B 或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES)进行分析或原子吸收光谱法(AAS)进行分析  
2) 参照美国环境保护局(US EPA)方法 3050B 或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES) 进行分析或原子吸收光谱法(AAS)进行分析  
3) 参照 US EPA 3052 方法或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES) 进行分析  
4) 参照 US EPA3060A & US EPA7196A 进行分析  
采用紫外分光光度计进行分析

试验结果 : 见下一页

SGS-CSTC 化学实验室授权签字

张曜  
主管

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SHCH 206620

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Shanghai Branch, Testing Center-Chemical Laboratory

1/F, 7/F, 9/F & 10/F, the 3rd Building, No. 889, Yishan Road, Xuhui District, Shanghai, China 200233 t +86 21 6495 1616\*822 f +86 21 5450 0314  
中国·上海·徐汇区宜山路889号3号楼1楼、7楼、9楼、10楼 邮编: 200233 t +86 21 6495 1616\*822 f +86 21 5450 0314 [www.cn.sgs.com](http://www.cn.sgs.com)

Member of the SGS Group (Société Générale de Surveillance)



试验结果 :

序号	项目	单位	检测极限值	A
1	镉(Cd)	ppm	2	N.D.
2	铅(Pb)	ppm	2	N.D.
3	汞(Hg)	ppm	2	N.D.
4	六价铬(Cr VI)	ppm	2	N.D.

(所示结果为样品总重量中的含量)

样品描述:

A. 银色金属圈

备注: ppm =mg/kg

N.D.=未检出 (低于检测极限值)

\*\*\*报告结束\*\*\*

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SHCH 206621

外圈



测试报告

No. SH504897/ CHEM

Date: 1.28.2005

Page 1 of 2

上海美蓓亚精密机电有限公司  
上海市青浦区沪青平公路 8313 号

委托检验的样品及申请者对样品的说明如下:

样品名称 : 轴承  
SGS 相关号 : SHEC0050101446-4  
材质 : SUT2MD

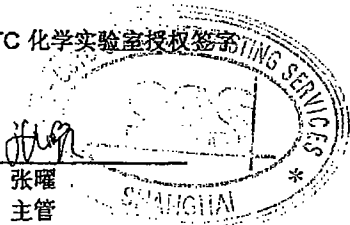
样品收到日期 : 2005-01-25  
样品试验日期 : 2005-01-25—2005-01-28

试验要求 : 1) 测定委托样品的镉含量  
2) 测定委托样品的铅含量  
3) 测定委托样品的汞含量  
4) 测定委托样品的六价铬含量

试验方法 : 1) 参照 BS EN 1122:2001 方法 B 或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES)进行分析或原子吸收光谱法(AAS)进行分析  
2) 参照美国环境保护局(US EPA)方法 3050B 或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES) 进行分析或原子吸收光谱法(AAS)进行分析  
3) 参照 US EPA 3052 方法或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES) 进行分析  
4) 参照 US EPA3060A & US EPA7196A 进行分析  
采用紫外分光光度计进行分析

试验结果 : 见下一页

SGS-CSTC 化学实验室授权签字



张曜  
主管

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SHCH 206612

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Shanghai Branch, Testing Center-Chemical Laboratory | 中国·上海·徐汇区宜山路889号3号楼1楼、7楼、9楼、10楼 邮编: 200233·t +86 21 6495 1616\*822 f +86 21 5450 0314 www.cn.sgs.com

Member of the SGS Group (Société Générale de Surveillance)

试验结果 :

序号	项目	单位	检测极限值	A
1	镉(Cd)	ppm	2	N.D.
2	铅(Pb)	ppm	2	N.D.
3	汞(Hg)	ppm	2	N.D.
4	六价铬(Cr VI)	ppm	2	N.D.

(所示结果为样品总重量中的含量)

样品描述:

A. 银色金属轮

备注: ppm =mg/kg

N.D.=未检出 (低于检测极限值)

\*\*\*报告结束\*\*\*

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SHCH 206613



测试报告

No. SH504895/ CHEM

Date: 1.28.2005

Page 1 of 2

上海美蓓亚精密机电有限公司  
上海市青浦区沪青平公路 8313 号

委托检验的样品及申请者对样品的说明如下:

样品名称 : 轴承  
SGS 相关号 : SHEC0050101446-3  
材质 : SAE52100

样品收到日期 : 2005-01-25  
样品试验日期 : 2005-01-25—2005-01-28

试验要求 : 1) 测定委托样品的镉含量  
2) 测定委托样品的铅含量  
3) 测定委托样品的汞含量  
4) 测定委托样品的六价铬含量

试验方法 : 1) 参照 BS EN 1122:2001 方法 B 或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES)进行分析或原子吸收光谱法(AAS)进行分析  
2) 参照美国环境保护局(US EPA)方法 3050B 或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES) 进行分析或原子吸收光谱法(AAS)进行分析  
3) 参照 US EPA 3052 方法或其他酸消解  
采用电感耦合等离子发射光谱法(ICP-AES) 进行分析  
4) 参照 US EPA3060A & US EPA7196A 进行分析  
采用紫外分光光度计进行分析

试验结果 : 见下一页

SGS-CSTC 化学实验室授权签字

张曜  
主管



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SHCH 206616

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Shanghai Branch, Testing Center-Chemical Laboratory | 中国·上海·徐汇区宜山路889号3号楼1楼、7楼、9楼、10楼 | 邮编: 200233 | t +86 21 6495 1616\*822 | f +86 21 5450 0314 | [www.cn.sgs.com](http://www.cn.sgs.com)

Member of the SGS Group (Société Générale de Surveillance)

## 试验结果 :

序号	项目	单位	检测极限值	A
1	镉(Cd)	ppm	2	N.D.
2	铅(Pb)	ppm	2	N.D.
3	汞(Hg)	ppm	2	N.D.
4	六价铬(Cr VI)	ppm	2	N.D.

(所示结果为样品总重量中的含量)

## 样品描述:

A. 银色金属轮

备注: ppm =mg/kg

N.D.=未检出 (低于检测极限值)

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SHCH 206617

测试报告

No. SH04891/CHEM

Date: 1.31.2005

Page 1 of 2

上海美裕亚精密机电有限公司  
上海市青浦区沪青平公路 8313 号

委托检验的样品及申请者对样品的说明如下:

样品名称 : 保持架  
SGS 相关号 : SHEC0050101446-1  
型号 : MN  
材质 : 树脂

样品收到日期 : 2005-01-25  
样品试验日期 : 2005-01-25—2005-01-31

试验要求 :  
1) 测定委托样品的铜含量  
2) 测定委托样品的铅含量  
3) 测定委托样品的汞含量  
4) 测定委托样品的六价铬含量  
5) 测定委托样品的多溴联苯(PBBs), 多溴联苯醚(PBBEs/PBDEs)含量

试验方法 :  
1) 参照 BS EN 1122:2001 方法 B  
采用电感耦合等离子体发射光谱法(ICP-AES)进行分析或原子吸收光谱法(AAS)进行分析  
2) 参照美国环境保护局(US EPA)方法 3050B  
采用电感耦合等离子体发射光谱法(ICP-AES) 进行分析或原子吸收光谱法(AAS)进行分析  
3) 参照 US EPA 3052 方法  
采用电感耦合等离子体发射光谱法(ICP-AES) 进行分析  
4) 参照 US EPA 3060A & US EPA 7196A 进行分析  
采用紫外分光光度计进行分析  
5) 参照 US EPA 8081, 采用 GC/MS 进行分析

试验结果 : 见下一页

SGS-CSTC 化学实验室授权签字

  
张明  
主管

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中国: 上海: 徐汇区宜山路888号3号楼1楼, 7楼, 9楼, 10楼. 邮编: 200233. T +86 21 6495 1616\*822. F +86 21 5460 0314. [www.cn.sgs.com](http://www.cn.sgs.com)

NO. 396

31 DEC 2005 19:23:58



试验结果

序号	项目	单位	检测限值	A
1	镉(Cd)	ppm	2	N.D.
2	铅(Pb)	ppm	2	N.D.
3	汞(Hg)	ppm	2	N.D.
4	六价铬(Cr VI)	ppm	2	N.D.
5	多溴联苯定量分析	—	—	—
	一溴联苯	ppm	5	N.D.
	二溴联苯	ppm	5	N.D.
	三溴联苯	ppm	5	N.D.
	四溴联苯	ppm	5	N.D.
	五溴联苯	ppm	5	N.D.
	六溴联苯	ppm	5	N.D.
	七溴联苯	ppm	5	N.D.
	八溴联苯	ppm	5	N.D.
	九溴联苯	ppm	5	N.D.
	十溴联苯	ppm	5	N.D.
	多溴联苯醚定量分析	—	—	—
	一溴联苯醚	ppm	5	N.D.
	二溴联苯醚	ppm	5	N.D.
	三溴联苯醚	ppm	5	N.D.
	四溴联苯醚	ppm	5	N.D.
	五溴联苯醚	ppm	5	N.D.
	六溴联苯醚	ppm	5	N.D.
	七溴联苯醚	ppm	5	N.D.
	八溴联苯醚	ppm	5	N.D.
九溴联苯醚	ppm	5	N.D.	
十溴联苯醚	ppm	5	N.D.	

(所示结果为样品总重量中的含量)

样品描述:

A. 黄/棕色树脂架

备注: ppm = mg/kg

N.D.=未检出 (低于检测限值)

\*\*\*报告结束\*\*\*

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SHGH 209118



试验结果

序号	项目	单位	检测限值	A
1	镉(Cd)	ppm	2	N.D.
2	铅(Pb)	ppm	2	N.D.
3	汞(Hg)	ppm	2	N.D.
4	六价铬(Cr VI)	ppm	2	N.D.
5	多溴联苯定量分析	—	—	—
	一溴联苯	ppm	5	N.D.
	二溴联苯	ppm	5	N.D.
	三溴联苯	ppm	5	N.D.
	四溴联苯	ppm	5	N.D.
	五溴联苯	ppm	5	N.D.
	六溴联苯	ppm	5	N.D.
	七溴联苯	ppm	5	N.D.
	八溴联苯	ppm	5	N.D.
	九溴联苯	ppm	5	N.D.
	十溴联苯	ppm	5	N.D.
	多溴联苯醚定量分析	—	—	—
	一溴联苯醚	ppm	5	N.D.
	二溴联苯醚	ppm	5	N.D.
	三溴联苯醚	ppm	5	N.D.
	四溴联苯醚	ppm	5	N.D.
	五溴联苯醚	ppm	5	N.D.
	六溴联苯醚	ppm	5	N.D.
	七溴联苯醚	ppm	5	N.D.
	八溴联苯醚	ppm	5	N.D.
九溴联苯醚	ppm	5	N.D.	
十溴联苯醚	ppm	5	N.D.	

(所示结果为样品总重量中的含量)

样品描述

A 黄色膏体

备注: ppm = mg/kg

N.D. = 未检出 (低于检测限值)

报告结束

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SHCH 200114





禾特 (磁石) 3/1

# Test Report

DONG GUAN SUPERTECH ELECTRONICS CO., LTD. Report No. : CE/2004/93628  
 YAN TAN DISTRICT, FUNG KONG, DONG GUAN, Date : 2004/09/29  
 GUANG DONG, CHINA. Page : 1 of 3

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

Type of Product : 橡膠磁石  
Sample Received : 2004/09/21  
Testing Date : 2004/09/21 TO 2004/09/29

Test Result : - Please see the next page -

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

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TW 1085445



J/2

# Test Report

DONG GUAN SUPERTECH ELECTRONICS CO., LTD. Report No. : CE/2004/93628  
 YAN TIAN DISTRICT, FUNG KONG, DONG GUAN, Date : 2004/09/29  
 GUANG DONG, CHINA. Page : 2 of 3

## Test Result

PART NAME NO. 1 : BLACK RUBBER MAGNET

Test Item (s)	Unit	Method	MDL	Result			
				No. 1			
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/EBC and 76/769/EBC)	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/EBC and 76/769/EBC)	0.0005	N.D.			

Test Item (s)	Unit	Method	MDL	Result			
				No. 1			
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to US EPA 8082, 89/677/EBC. Analysis was performed by GC/ECD/MS.	0.5	N.D.			

Test Item (s)	Unit	Method	MDL	Result			
				No. 1			
PVC free(CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro-GC/MS.	-	Negative			

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 台灣檢驗科技股份有限公司 | 地址: 台灣桃園縣竹塹鄉五股路一段128-1號 | 電話: 886-3-2225-2222 | 傳真: 886-3-2225-2227 | 網際網路: www.sgs.com.tw

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J/L

# Test Report

DONG GUAN SUPERTECH ELECTRONICS CO., LTD.  
YAN TIAN DISTRICT, FUNG KONG, DONG GUAN,  
GUANG DONG, CHINA.

Report No. : CE/2004/93628  
Date : 2004/09/29  
Page : 3 of 3

Test Item (s):	Unit	Method	MDL	Result			
				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	24.2			

- NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit  
 (4) " - " = No Regulation  
 (5) \*\* = Qualitative analysis (No Unit)  
 (6) Negative = Undetectable / Positive = Detectable

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T:1085447

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 台灣檢驗科技股份有限公司 | 電話: 886-21 2289-2000 | 傳真: 886-21 2289-2033 | www.sgs.com.tw

TOTAL P. 03





# Test Report

No.: GZSCR050428129/LP

Date: MAY 12, 2005

Page 1 of 4

DONGGUAN CHANG DA ELECTRIC WIRE FACTORY CO., LTD.  
58 XING-WANG RD. WU-SHA, CHEN-WU INDUSTRY ZONE,  
CHANG-AN TOWN, DONGGUAN CITY, GUANG-DONG PROVINCE, CHINA

Report on the submitted sample said to be PVC INSULATION WIRE WITH COLOR: YELLOW  
(UL1007/UL1015/UL1028/UL1569/UL1571/UL1581/UL1865/UL1061/UL2468/UL2800/UL2877/UL2651/UL2464/UL  
2733/UL1617/UL1185/UL2547/UL2835/ULSPT(W)/ULNISPT(W)/ULSJT(W)/ULSVT(W)/(H)/VFF(H)/VCF7(H)/VCTF  
K AND OTHER NOUL STYLE) THEY FIT SONY & SAMSUNG MODEL

SGS Ref No. : GZ050404694EC-11.3

JT3 P/N : 180-RU02220, 180-RU08820, 180-R004018, 180-RU04020, 180-  
R004020, 182-418012, 180-RU04022, 182-400003, 182-420000, 182-  
W08300400

Buyer : SONY (OEM) FACTORY

Supplier : WIN-TECH PLASTIC MATERIALS CO.,LTD.

Sample Receiving Date : APR 29, 2005

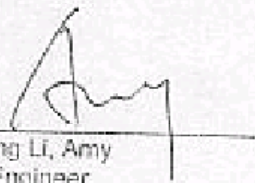
Testing Period : APR 29, 2005 TO MAY 10, 2005

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 & EPA 7196A.  
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.



Zhang Li, Amy  
Sr. Engineer

客户名称	温仕	Pb Max: 13
Lot#	72045001	Cd Max: MP
检测项目	温仕	检测结果
检测员	刘菊华	日期
工号	0000	日期

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## Test Report

No.: GZ3CR050428129/LP

Date: MAY 12, 2005

Page 2 of 4

Results :

(1)

	Yellow plastic (jacket)
Lead Content (Pb) (ppm)	13
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

(2)

Flame Retardants	Yellow plastic (jacket)	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
<b>Polybrominated Diphenylether (PBDEs)</b>		
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 \*\*\*

GZCM 131 1.0

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## Test Report

No.: GZSCR050426129/LP

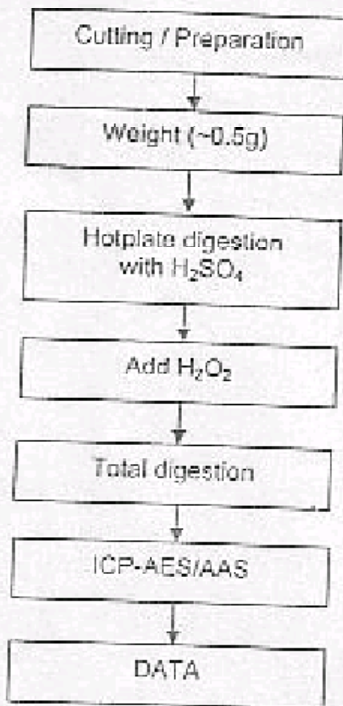
Date: MAY 12, 2005

Page 3 of 4

### ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content):



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

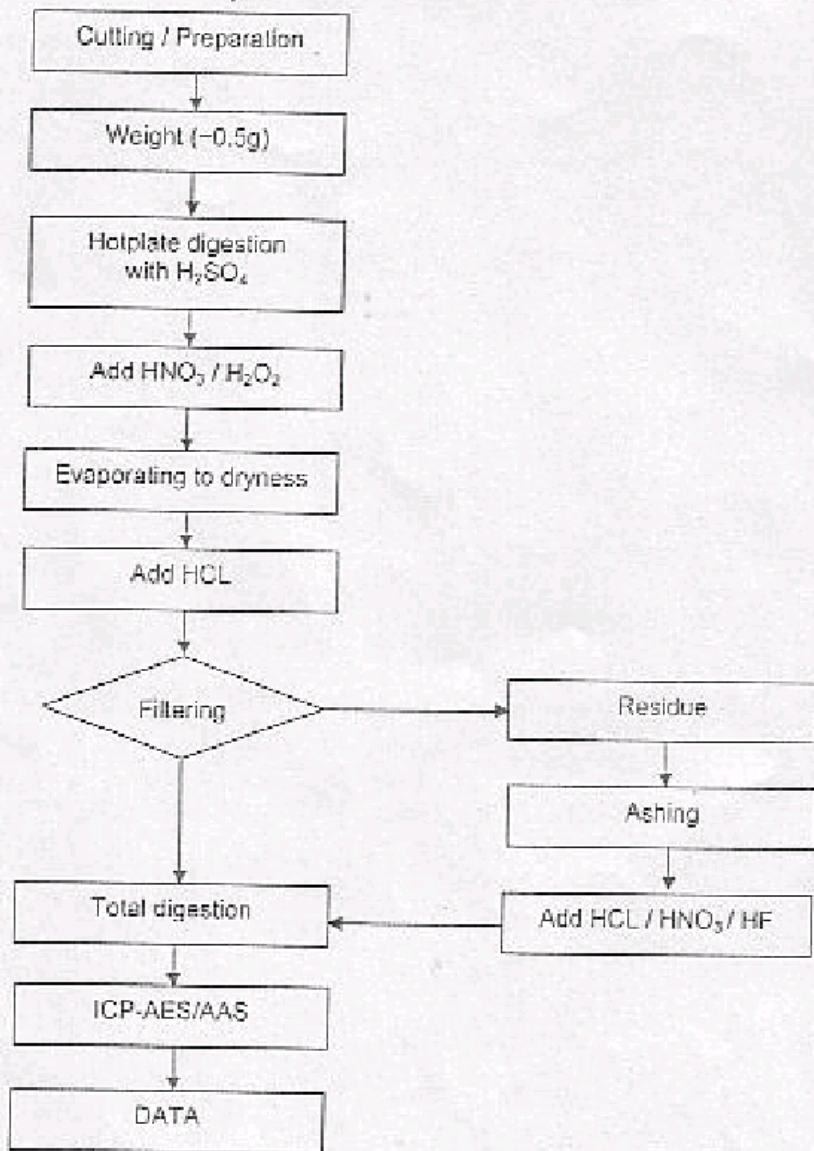
Operator : Sams Deng  
Leader : Joe Li

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(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.: GZSCR050426130/LP

Date: MAY 12, 2005

Page 1 of 4

DONGGUAN CHANG DA ELECTRIC WIRE FACTORY CO., LTD.  
88 XING-WANG RD. WU-SHA, CHEN-WU INDUSTRY ZONE,  
CHANG-AN TOWN, DONGGUAN CITY, GUANG-DONG PROVINCE, CHINA

Report on the submitted sample said to be PVC INSULATION WIRE WITH COLOR: RED  
[UL1007/UL1015/UL1028/UL1569/UL1571/UL1581/UL1885/UL1061/UL2468/UL2800/UL2877/UL2851/UL2464/UL  
2733/UL1617/UL1185/UL2547/UL2835/ULSPT(W)/ULNISPT(W)/ULSJT(W)/ULSVT(W)(H)/VFF(H)/VCF(H)/VCTF  
K AND OTHER NOUL STYLE) THEY FIT SONY & SAMSUNG MODEL

SGS Ref No. : GZ050404694EC-11.4  
 JT3 P/N : 180-R002018, 180-RU02020, 180-R002020, 180-R002920, 180-  
 RU02220, 180-RU08820, 180-1WR-1009-1-3M, 180-1WR-1009-5M,  
 182-W02300200, 180-RU02922TC, 180-RU02026, 180-H0039, 193-JBL-  
 2, 180-1WR-1009-1, 180-1WR-1009, 180-1WR-1010, 180-A6458, 180-  
 RU02018, 180-RU02022, 180-RU02024, 180-RU02922, 182-218012,  
 182-220002, 182-220011, 182-240009, 182-260005, 182-200006, 182-  
 W08300200, 184-H0011

Buyer : SONY (OEM) FACTORY  
 Supplier : WIN-TECH PLASTIC MATERIALS CO.,LTD.  
 Sample Receiving Date : APR 29, 2005  
 Testing Period : APR 29, 2005 TO MAY 10, 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 & EPA 7196A.  
 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.

Zhang Li, Amy  
Sr. Engineer

（下單）原電線附物質測試報告書請注意			
RoHS: 合格	Pb Max值:	7	
Lead: 72012.000	Cd Max值:	N.D	
RoHS: 合格	結果判定:	OK	
檢驗員: 劉華華	日期:	05年 5月 12日	
工程師: 張麗	日期:	05年 5月 12日	

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GZCM 031100



## Test Report

No.: GZSCR050426130/LP

Date: MAY 12, 2005

Page 2 of 4

Results :

(1)

Red plastic w/ black printing (jacket)

Lead Content (Pb) (ppm)	7
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

(2)

Flame Retardants	Red plastic w/ black printing (jacket)	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
<b>Polybrominated Diphenylether (PBDEs)</b>		
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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GZCM 231061



## Test Report

No.: GZSCR050426130/LP

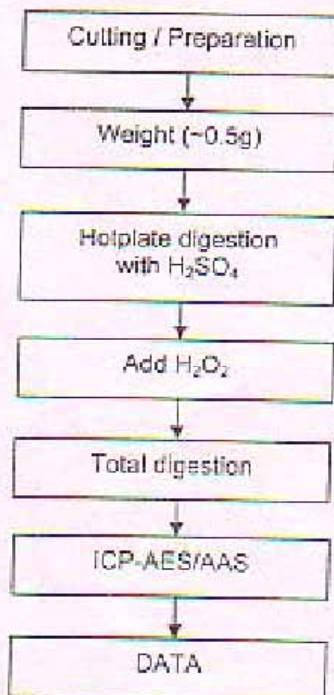
Date: MAY 12, 2005

Page 3 of 4

### 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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GZCM 011111

## Test Report

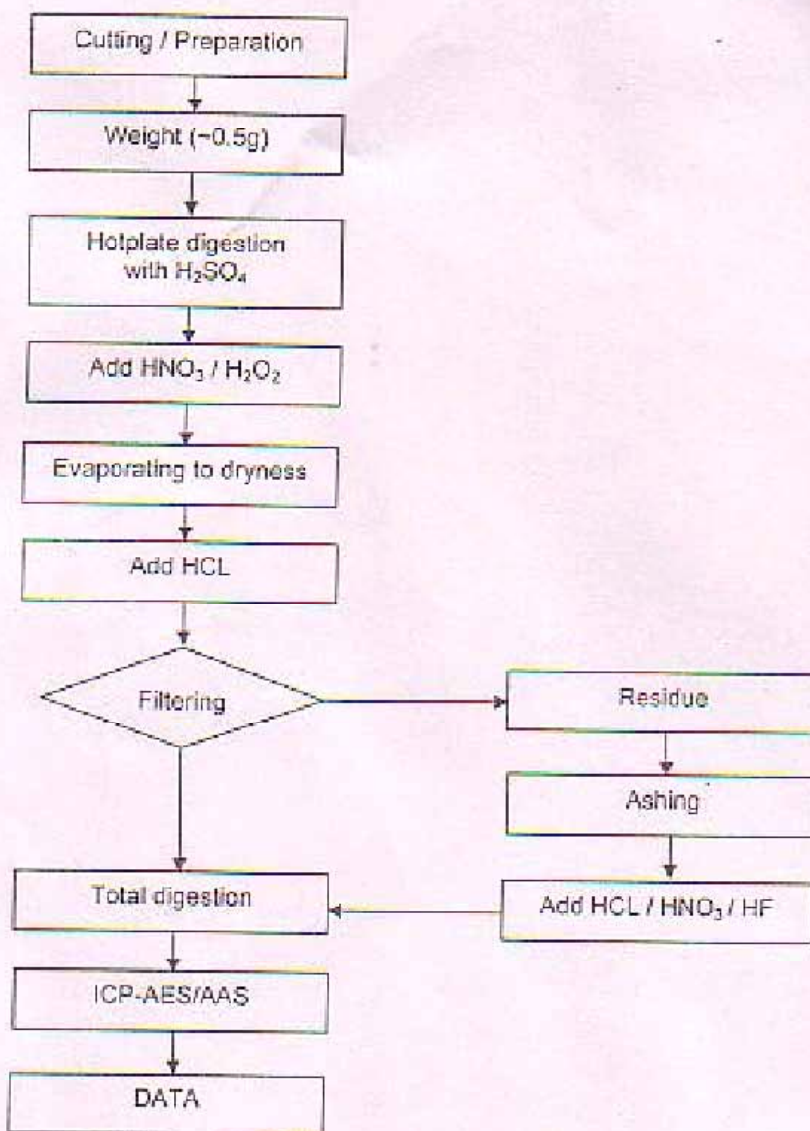
No.: GZSCR050426130/LP

Date: MAY 12, 2005

Page 4 of 4

(2)

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



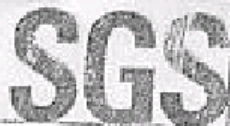
The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li  
 Leader : Adams Yu

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GZCM 231961





Test Report

No.: GZSCR050426135/LP

Date: MAY 12, 2005

Page 1 of 4

DONGGUAN CHANG DA ELECTRIC WIRE FACTORY CO., LTD.
88 XING-WANG RD. WU-SHA, CHEN-WU INDUSTRY ZONE,
CHANG-AN TOWN, DONGGUAN CITY, GUANG-DONG PROVINCE, CHINA

Report on the submitted sample said to be PVC INSULATION WIRE WITH COLOR: BLACK
[UL1007/UL1015/UL1028/UL1569/UL1571/UL1581/UL1865/UL1061/UL2463/UL2800/UL2877/UL2851/UL2464/UL
2733/UL1617/UL1185/UL2547/UL2835/ULSPT(W)/ULNISPT(W)/ULSJT(W)/ULSVT(W)/(H)VFF/(H)VCFT/(H)VCTF
K AND OTHER NOUL STYLE) THEY FIT SONY & SAMSUNG MODEL

SGS Ref No. : GZ050404694EC-11.9
JT3 P/N : 184-CHAMP-B, 193-AM-EX100, 180-R002018, 180-R003018, 180-R004018,
180-R006018, 182-060008, 193-MARK1, 193-MARK1-A, 180-RU06022, 180-
RU08822, 180-RU00020, 180-RU02020, 180-RU04020, 180-RU06020, 180-
RU08020, 280-R004020, 180-R000020, 180-R002020, 180-RU08018, 180-
RU08818, 193-Z6-1, 193-Z6, 180-RU00022, 180-RU02220, 180-RU08820, 184-
CHAMP-A, 193-WR-37001, 184-H0011, 180-RU02018, 193-CHAMPSR-1, 193-
CHAMPSR-2, 180-RU02922, 180-RU02022, 180-RU00020, 193-LCS1060LB,
180-1WR-1010, 180-1WR-1801, 180-A6459, 193-ZB, 193-ZB-1, 184-JBL41-10,
180-RU02018, 180-RU02022, 180-RU02024, 193-NS-329, 184-Z5300-3A, 180-
RU04022, 193-DN-2424A, 180-RU06018, 180-RU08022, 184-PULSE350, 182-
020005, 180-RU09022, 182-000009, 193-JBL41, 182-018012, 182-020005, 182-
0181617, 182-020014, 182-040001, 180-RU02026, 182-W08000000, 184-
LCS1060RB, 184-Z640-3A, 186-FDP2-1, 193-JBL-1C, 184-LCS1060RB, 184-
Z640-3A, 186-FDP2-1, 193-JBL-1C, 193-JBL-2C, 184-NS-379, 193-JBL41-10
Buyer : SONY (OEM) FACTORY
Supplier : SHENZHEN HONGWAN PLASTIC CO., LTD
Sample Receiving Date : APR 29, 2005
Testing Period : APR 29, 2005 TO MAY 10, 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 & EPA 7196A.
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.

Zhang Li, Amy
Sr. Engineer

Table with 2 columns: Item/Field and Value. Includes fields for Manufacturer (昌佳), Pb Max (ND), Lead (70000000), Cd Max (ND), Test Result (OK), and dates.

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defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained
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## Test Report

No.: GZSCR050426135/LP

Date: MAY 12, 2005

Page 2 of 4

Results :

(1)

Black plastic w/ white printing (jacket)

Lead Content (Pb)	N.D.
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

(2)

Flame Retardants	Black plastic w/ white printing (jacket)	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
<b>Polybrominated Diphenylether (PBDEs)</b>		
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	16ppm	5

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

\*\*\* End of Report \*\*\*

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GZCM 242191



# SGS

## Test Report

No.: GZSCR050426135/LP

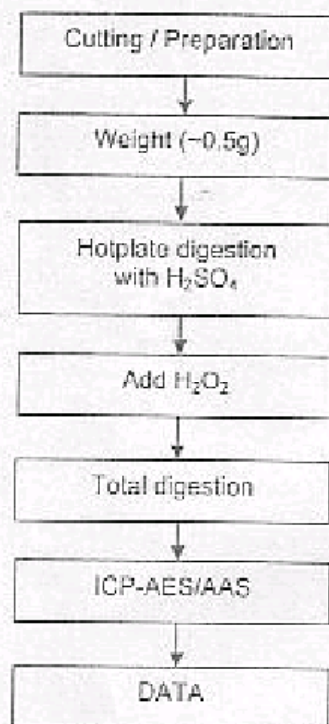
Date: MAY 12, 2005

Page 3 of 4

### 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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GZCM 242100

## Test Report

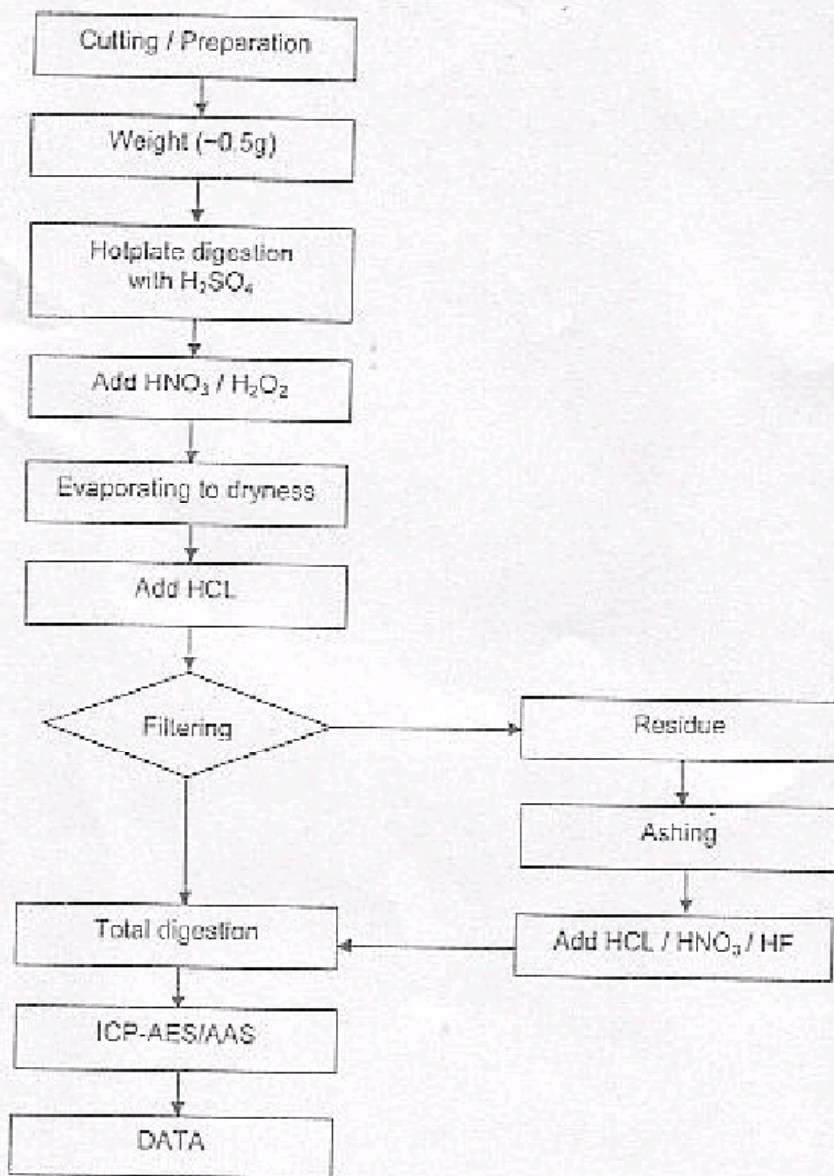
No.: GZSCR050426135/LP

Date: MAY 12, 2005

Page 4 of 4

(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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GZCM 1471311



## Test Report

No.: GZSCR050313680LP

Date: MAR 24, 2005

Page 1 of 2

DONGGUAN YUKKWONG METAL OXIDIZATION PRODUCTS CO.,LTD.  
XINSHI DISTRICT, HENGLI, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be: 7015-2P

SGS Ref No.: GZ050002639EC-3.3  
Buyer: EVERFLOW  
Supplier: DONGGUAN YUKKWONG METAL OXIDIZATION PRODUCTS CO.,LTD.  
Sample Receiving Date: MAR 17, 2005  
Testing Period: MAR 17, 2005 TO MAR 22, 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), PBCEs (Polybrominated diphenylethers) of the submitted sample.

**Test Method** : (1) 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 & EPA 7198A.  
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 Xinyan, Jane  
Test Manager

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GZCM 225295



Test Report

No. GZSCR050313690LP

Date MAR 24, 2005

Page 2 of 2

Results :

(1)

	PCB
Lead Content (Pb) (ppm)	15
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

(2)

Flame Retardants	PCB	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	N.D.	5
Dibromobiphenyl	N.D.	5
Trisbromobiphenyl	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
<b>Polybrominated Diphenyl ether (PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Trisbromodiphenyl 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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GZCM 225296



# Test Report

CHANG CHUN PLASTICS CO., LTD.  
7TH FL., 301 SONG KIANG ROAD, TAIPEI, TAIWAN,  
R. O. C.

Report No. : CE/2005/33371  
Date : 2005/03/23  
Page : 1 of 3

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

<u>Type of Product</u>	:	POLYBUTYLENE TEREPHTHALATE
<u>Style/Item No</u>	:	PET(2000, 2000T, 2100, 4108, 4115, 4115F, 4120, 4130, 4130F, 4140, 4815, 4820, 4830, 4840, 4815G, 4830G)
<u>Sample Received</u>	:	2005/03/16
<u>Testing Date</u>	:	2005/03/16 TO 2005/03/23

Test Result : - Please see the next page -

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

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# Test Report

CHANG CHUN PLASTICS CO., LTD.  
 7TH FL., 301 SONG KIANG ROAD, TAIPEI, TAIWAN,  
 R. O. C.

Report No. : CE/2005/33371  
 Date : 2005/03/23  
 Page : 2 of 3

## Test Result

PART NAME NO.1 : MULTICOLORED PLASTIC PELLETS (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s)	Unit	Method	MDL	Result
				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	12.0

Test Item (s)	Unit	Method	MDL	Result
				No.1
PBBs(Polybrominated biphenyls)(CAS NO:059836-65-1)	%	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.
PBDEs(PBDEs)(Polybrominated biphenyl ethers)	%	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)	0.0003	N.D.

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

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SGS TAIWAN LIMITED | NO. 126-1, VIA KANG ROAD, WU-KU INDUSTRIAL ZONE, TAIPEI COUNTY, TAIWAN.  
 TEL: 886-2-27081811 FAX: 886-2-27081817 www.sgs.com.tw

勁 寶 康 有 限 公 司

Page: 001

FROM : A/TWAINL

2005-06-27 06:58PM

# SGS

## Test Report

KOAN HAO ENTERPRISE CO, LTD  
29, GUNG YE RD, NANKANG IND. PARK, NANTOU,  
TAIWAN R. O. C.


Report No. : CE/2005/40248A  
Date : 2005/04/11  
Page : 1 of 6

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

Type of Product	:	25 g POLYESTER FILM GOLDEN MAT(II) STICKER FOR 10
Style/Item No	:	TKOMISUL
Buyer	:	SONY
Sample Received	:	2005/04/01
Testing Date	:	2005/04/01 TO 2005/04/11

Test Result : - Please see the next page -

\*This report is combined with report of CE/2005/40248A\*

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

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**SGS****Test Report**

KOAN HAO ENTERPRISE CO., LTD  
29, GUNG YE RD, NANKANG IND. PARK, NANTOU,  
TAIWAN R. O. C.

Report No. : CE/2005/403011  
Date : 2005/04/11  
Page : 3 of 6

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

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

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SGS THOMSON LIMITED | NO. 1230, Wu Kong Road, Wu Kong Industrial Zone, Tainan County, Taiwan  
TEL: 81-6-2912311 FAX: 81-6-2912312 www.sgslab.com



# Test Report

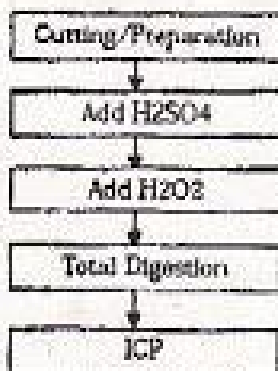
ROAN HAO ENTERPRISE CO, LTD  
 29, CUNG YE RD, NANKANG IND. PARK, NANTOU,  
 TAIWAN R. O. C.

Request No. :  
 Date : 2005/04/11  
 Page : 4 of 8

PART NAME NO. 1

Per requirements of SONY QAR-05-002:  
 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
 2) Name of the person who made measurement: Anren Lee  
 3) Name of the person in charge of measurement: Dardel Yeh

Flow Chart of Digestion for Plastic - EN1122 for Cd (without residue)



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# SGS Test Report

HOAN HAO ENTERPRISE CO., LTD  
29, CUNG YE RD, NANKANG IND. PARK, NANTOU,  
TAIWAN R. O. C.

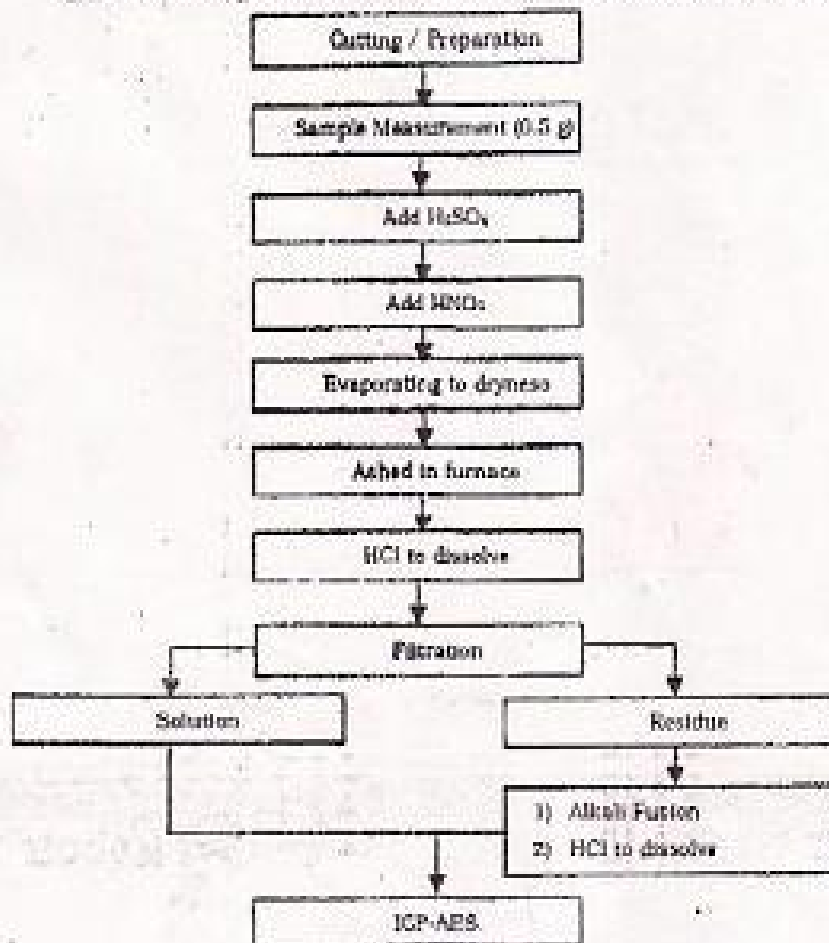
Report No. : CE/2005/400011  
Date : 2005/04/11  
Page : 5 of 6

**PART NAME NO. 1**

For requirements of SONY QAR-05-0021

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anzen Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

**Flow Chart of Digestion for Plastic - Wet Decomposition for Pb (residue ICP)**









# Test Report

No.: GZSCR050420533/LP

Date: APR 15, 2005

Page 1 of 2

JUST MAKE ELECTRONICS CO.,LTD.  
XI NIU PI INDUSTRIAL ESTATE,  
DA LANG TOWN, DONGGUAN

Report on the submitted sample said to be TERMINAL (端子)

SGS Ref No. : SZ050405822EC  
 Item No. : SEE REMARK  
 P.O No. : 0502  
 Buyer : SAMSUNG  
 Supplier : JMT  
 Manufacture : JMT  
 Region of Origin : TAIWAN  
 Country of Destination : USA/JAPAN  
 Sample Receiving Date : APR 11, 2005  
 Testing Period : APR 11, 2005 TO APR 14, 2005

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

Test method : Cadmium content – In-house method, with reference to BS EN1122: 2001 method B .  
 Lead content – In-house method, with reference to EPA method 3050B: 1996 .  
 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.

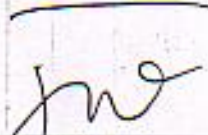
### Result

Silvery metal part + Golden metal part  
+ Coppery metal part

Lead Content (Pb)(ppm)	56
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

Signed for and on behalf of  
SGS-CSTC Ltd.

  
He Xiaoyan, Jane  
Tech. Manager

客户名称	JUST MAKE ELECTRONICS CO.,LTD.
客户地址	XI NIU PI INDUSTRIAL ESTATE, DA LANG TOWN, DONGGUAN
客户电话	
客户传真	
客户邮编	
客户邮箱	
客户网址	
客户备注	
客户名称	JMT
客户地址	7770425001
客户电话	JMT
客户传真	05 5 4
客户邮编	05 5 4
客户邮箱	
客户网址	
客户备注	

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GZCM 228506





## Test Report

No.: GZSCR050420533/LP

Date: APR 15, 2005

Page 2 of 2

Item No.

: J1000, J2000, J10182, J1011, J1017, J1018, J10181,  
J10182, J10185, J10186, J10187, J1019, J1020, J1030,  
J1058, J1158, J1120, J11202, J1130, J1135, J11636,  
J1432, J1439, J1445, J1441, J14312, J1456, J1473,  
J1424, J1543, J1535, J15351, J1729 J1730, J1732,  
J1735, J1740, J1741, J1751, J1752, J1753, J1764,  
J1841, J1842, J2016, J2017, J2020, J2120, J2027,  
J2017, J2030, J2130, J2133, J2143, J23125, J24125,  
J24150, J2350, J2351, J2362, J2347, J24111, J24221,  
J24150, J2416, J24181, J24182, J24228, J2540,  
J0303, J0302, J6758

\*\*\* End of Report \*\*\*

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GZCM.228507



# SGS

下金聚点停青课  
For 2005 2005

## Test Report

No.: SZTYR050410905/LP

Date: APR 15, 2005

Page 1 of 2

POWER LOGIC ELECTRONIC FACTORY  
NORTH AREA, TIANMEI INDUSTRIAL DISTRICT,  
HUANGJIANG TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, CHINA

Report on the submitted sample said to be: FRAME & IMPELLER & BOBBIN

SGS Ref. No.	: GZS12050420907/LP
Item No.	: PBT 4830
Type	: EVERFLOW
Supplier	: POWER LOGIC
Manufacturer	: CHANG CHUN PLASTICS CO., LTD.
Region of Origin	: TAIWAN
Sample Receiving Date	: APR 11, 2005
Testing Period	: APR 11, 2005 TO APR 14, 2005

Test Requested : Determination of PBBS (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) in the submitted sample.

Test Method : With reference to: SGS in-house method. Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.



Zhang Yanzhong, Hulan  
Section Manager

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SZL 32328 :



**Test Report**

No.: S2TYR050307952LP

Date: MAR 23, 2005

Page 1 of 1

POWER LOGIC ELECTRONIC FACTORY  
NORTH AREA, TIANMEI INDUSTRIAL D STRAICT,  
HUANGJIANG TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, CHINA

Report on the submitted sample said to be FRAME & IMPELLER & DOBBIN

Item No. : PBT 4030  
Buyer : EVERFLOW  
Supplier : POWER LOGIC  
Manufacturer : CHANG CHUN PLASTICS CO., LTD.  
Region of Origin : TAIWAN  
Sample Receiving Date : MAR 19, 2005  
Testing Period : MAR 19, 2005 TO MAR 23, 2005

Test Requested : To determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample

Test Method : Lead content - with reference to EPA Method 3050B: 1995 / other acid digestion.  
Cadmium content - with reference to EN1122: 2001 method B / other acid digestion.  
Mercury content - with reference to EPA Method 3052: 1995 / other acid digestion.  
Hexavalent Chromium content - with reference to EPA Method 3060A: 1995 / other wet digestion.  
Analysis was performed by Atomic Absorption Spectrometer (AAS) and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

**Results**

Black plastic pieces + Red plastic pieces

Lead Content (ppm) <i>Pb</i>	11
Cadmium Content (ppm) <i>cd</i>	7
Mercury Content <i>Hg</i>	N.D.
Hexavalent Chromium Content <i>CrVI</i>	N.D.

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

  
Zhang Yanzheng, Head  
Section Manager

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SZL 315587



**Test Report**

No.: 82TYR050410505/LP

Date: APR 15, 2005

Page 2 of 2

**Results:**

	Black plastic + Red plastic	Detection Limit
<b>Flame Retardants</b>	---	---
<b>Polybrominated Biphenyls (PBBs)</b>		5 ppm
Monobromobiphenyl	N.D.	5 ppm
Dibromobiphenyl	N.D.	5 ppm
Tribromobiphenyl	N.D.	5 ppm
Tetrabromobiphenyl	N.D.	5 ppm
Pentabromobiphenyl	N.D.	5 ppm
Hexabromobiphenyl	N.D.	5 ppm
Heptabromobiphenyl	N.D.	5 ppm
Octabromobiphenyl	N.D.	5 ppm
Nonabromobiphenyl	N.D.	---
Decabromobiphenyl	---	5 ppm
<b>Polybrominated Biphenyl ether (PBDEs)</b>		5 ppm
Monobromodiphenyl ether	N.D.	5 ppm
Dibromodiphenyl ether	N.D.	5 ppm
Tribromodiphenyl ether	N.D.	5 ppm
Tetrabromodiphenyl ether	N.D.	5 ppm
Pentabromodiphenyl ether	N.D.	5 ppm
Hexabromodiphenyl ether	N.D.	5 ppm
Heptabromodiphenyl ether	N.D.	5 ppm
Octabromodiphenyl ether	N.D.	5 ppm
Nonabromodiphenyl ether	N.D.	5 ppm
Decabromodiphenyl ether	N.D.	5 ppm

- Note : - N.D. = Not Detected  
 - Not detected is lower than detection limit value.  
 - The tests were conducted by SGS GZ LTD.

\*\*\* End of Report \*\*\*

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521 323282

WACB Centre, 10000 Blvd. de l'Est  
 Parc Industriel 10000

34,4037 Date: 15/04/2005 Sampling: Red, Designated: JIA IIN  
 1 (82-75) 02114038 1 (82-75) 02114039 02114044 www.sgs.com  
 Member of SGS Group, Société Générale de Surveillance



# SGS

伟诺助焊剂

To: 李刚 王丽

## Test Report

No. SZTYR050117809/LP

Date: JAN 25, 2005

Page 1 of 1

DONG GUAN WEL HAO SCIENTECH ELECTRONICS MATERIAL CO., LTD  
NO.189 BEI HUAN ROAD TIAO KANG, HENG LI TWON, DONG GUAN CITY

Report on the submitted sample said to be FLUX

Item No.	: HD-810
Buyer	: SONY
Sample Receiving Date	: JAN 18, 2005
Testing Period	: JAN 19, 2005 JAN 24, 2005

Test Requested : To determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - with reference to EPA Method 3050B: 1996.  
Cadmium content - with reference to EN1122: 2001 method B.  
Mercury & Chromium content - In-house method.  
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer.

### RESULTS

Transparent Lt. yellow liquid

Lead content (mg/kg)	< 2
Cadmium Content (mg/kg)	< 2
Mercury Content (mg/kg)	< 2
Hexavalent Chromium Content (mg/kg)	< 2

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

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Zhang Yuhzheng, Helen  
Sr. Section Head

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SZL 169894



To: 采賜 羅'S

偉信 fan solder

Test Report

No. 2013786/EC

Date: Feb 21 2005

Page 1 of 2

深圳市弘星威錫錫製品有限公司  
深圳市寶安區石岩鎮埔頭工業區

對標稱為無鉛錫條之化驗報告

此報告是報告 2013451/EC, 日期為 FEB 18 2005 之報告的中文譯本 (翻譯內容如有歧異, 概以英文報告為準)。

SGS 工作編號 : 1703515  
 SGS 參考編號 : SZECC0050201914EC  
 買家 : 廣東美的, 福建大相電子  
 生產廠家/供應商 : 深圳市弘星威錫錫製品有限公司  
 原產國 : 中國  
 樣品接收日期 : 二零零五年二月四日  
 化驗時間/日期 : 二零零五年二月五日至十八日

- 測試項目 :
- 1) 檢定所提供樣品之鎘 (Cd) 含量。
  - 2) 檢定所提供樣品之鉛 (Pb) 含量。
  - 3) 檢定所提供樣品之汞 (Hg) 含量。
  - 4) 檢定所提供樣品之六價鉻 (CrVI) 含量。
  - 5) 檢定所提供樣品之聚溴化苯 (PBBs), 聚溴化苯醚 (PBDEs/PBDEs) 含量。

- 測試方法 :
- 1-3) 參照內部方法進行測定。  
利用酸去溶解樣品, 然後利用電感耦合等離子發射光譜儀(ICP-AES)或原子吸收光譜儀進行測定。
  - 4) 根據EPA Method 3060A和7196A。  
依照EPA Method 3060A, 利用鹼抽取樣品中的六價鉻 (CrVI), 並以 Colorimetric method 7196A。
  - 5) 參照內部方法 進行測定。  
利用氣相色譜儀及質譜儀(GC/MS)進行測定。

測試結果 : 請參照下頁。

香港通用公証行  
代表簽名

李鳳美 / 高級經理

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To: 永興 羅'S



Test Report

No. 2013786/EC

Date : Feb 21 2005

Page 2 of 2

化測結果

1-4)

元素

鎘 (Cd)

鉛 (Pb)

汞 (Hg)

六價鉻 (Cr<sup>6+</sup>)

銀色金屬 (錫線)

< 2 毫克/ 千克

79 毫克/ 千克

< 2 毫克/ 千克

< 2 毫克/ 千克

(以上結果為測試樣品的總重量)

附註: < = 少於

5)

阻礙劑	銀色金屬 (錫線)	測試限定
聚氯化苯	---	---
氯化苯	未能測出	5 毫克/ 千克
二氯化苯	未能測出	5 毫克/ 千克
三氯化苯	未能測出	5 毫克/ 千克
四氯化苯	未能測出	5 毫克/ 千克
五氯化苯	未能測出	5 毫克/ 千克
六氯化苯	未能測出	5 毫克/ 千克
七氯化苯	未能測出	5 毫克/ 千克
八氯化苯	未能測出	5 毫克/ 千克
九氯化苯	未能測出	5 毫克/ 千克
十氯化苯	未能測出	5 毫克/ 千克
多氯化二苯醌	---	---
氯化二苯醌	未能測出	5 毫克/ 千克
二氯化二苯醌	未能測出	5 毫克/ 千克
三氯化二苯醌	未能測出	5 毫克/ 千克
四氯化二苯醌	未能測出	5 毫克/ 千克
五氯化二苯醌	未能測出	5 毫克/ 千克
六氯化二苯醌	未能測出	5 毫克/ 千克
七氯化二苯醌	未能測出	5 毫克/ 千克
八氯化二苯醌	未能測出	5 毫克/ 千克
九氯化二苯醌	未能測出	5 毫克/ 千克
十氯化二苯醌	未能測出	5 毫克/ 千克

(以上結果為測試樣品的總重量)

附註: 未能測出 = 低於測試限定

-- 完 --

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SGS (China) Limited, 5/F - 8/F & 28/F, 25/F, Metropole Square, 2 On Yiu Street, Siu Lek Yuen, Shatin, N.T., Hong Kong. Tel: (852) 2331 4401 Fax: (852) 2704 3128 www.hk.sgs.com

Member of the SGS Group (SLS) SIA



和... 5  
... 海... 梅... 梅... 梅...

测试报告

No. BH508981/ CHEM

Date: 2.28.2005

Page 1 of 2

东莞海桦电子材料厂  
东莞市东城区主山新三杞工业区

委托检验的样品及申请者对样品的说明如下:

样品名称 : 镀锡铜包铜线  
SGS 相关号 : SHEC0060203228  
买家 : 客户  
型号 : 0.40 x 0.40mm

样品收到日期 : 2005-02-23  
样品试验日期 : 2005-02-23—2005-02-28

- 试验要求
- 1) 测定委托样品的铜含量
  - 2) 测定委托样品的锡含量
  - 3) 测定委托样品的铁含量
  - 4) 测定委托样品的六价铬含量
  - 5) 测定委托样品的多溴联苯(PBBs)、多溴联苯醚(PBBEs/PBDEs)含量

- 试验方法
- 1) 参照 89 EN 1122:2001 方法 B 或其他酸消解。  
采用电感耦合等离子体发射光谱法(ICP-AES)进行分析或原子吸收光谱法(AAS)进行分析
  - 2) 参照美国环境保护局(US EPA)方法 3050B 或其他酸消解。  
采用电感耦合等离子体发射光谱法(ICP-AES) 进行分析或原子吸收光谱法(AAS)进行分析
  - 3) 参照 US EPA 3052 方法或其他酸消解。  
采用电感耦合等离子体发射光谱法(ICP-AES) 进行分析
  - 4) 参照 US EPA3060A & US EPA7106A 进行分析  
采用紫外分光光度计进行分析
  - 5) 参照 US EPA 8081, 采用 GC/MS 进行分析。

试验结果 : 见下一页

SGS-CSTC 化学



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BHCH 224200



试验结果

序号	项目	单位	检测限值	A
1	镉(Cd)	ppm	2	N.D.
2	铅(Pb)	ppm	2	N.D.
3	汞(Hg)	ppm	2	N.D.
4	六价铬(Cr VI)	ppm	2	N.D.
5	多溴联苯定量分析	---	---	---
	一溴联苯	ppm	5	N.D.
	二溴联苯	ppm	5	N.D.
	三溴联苯	ppm	5	N.D.
	四溴联苯	ppm	5	N.D.
	五溴联苯	ppm	5	N.D.
	六溴联苯	ppm	5	N.D.
	七溴联苯	ppm	5	N.D.
	八溴联苯	ppm	5	N.D.
	九溴联苯	ppm	5	N.D.
	十溴联苯	ppm	5	N.D.
	多溴联苯醚定量分析	---	---	---
	一溴联苯醚	ppm	5	N.D.
	二溴联苯醚	ppm	5	N.D.
	三溴联苯醚	ppm	5	N.D.
	四溴联苯醚	ppm	5	N.D.
	五溴联苯醚	ppm	5	N.D.
	六溴联苯醚	ppm	5	N.D.
	七溴联苯醚	ppm	5	N.D.
	八溴联苯醚	ppm	5	N.D.
九溴联苯醚	ppm	5	N.D.	
十溴联苯醚	ppm	5	N.D.	

(所示结果为样品总重量中的含量)

样品描述:

A. 银色金属丝

备注: ppm = mg/kg

N.D. = 未检出 (低于检测限值)

\*\*\*报告结束\*\*\*



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SHCH 224199





送件 2004/11/15

Chemical Laboratory - KAO, SGS Taiwan Ltd.

TEST REPORT

SAMPLE RETURN

REPORT NO:KA02004/00323  
DATE: 2004/11/23  
PAGE: 1 OF 3

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

CLIENT : WALSH TECHNOLOGY CORPORATION.  
PRODUCT DESCRIPTION : CHIP RESISTOR W/WWW/FF[8201,0402,0903,0005,1206,1216,2010,2012].  
TESTING DATE : 2004/11/7 TO 2004/11/23.  
SAMPLE RECEIVED : 2004/11/15.

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

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
ASBESTOS ANALYSIS	—	HEALTH CANADA-PRODUCT SAFETY BUREAU REFERENCE MANUAL BOOK5-LABORATORY POLICIES AND PROCEDURE(IITR)	—	n.d.
CHLORINATED PARAFFIN(C10-C13)	%	AS PER GCMS	0.01	n.d.
CADMIUM	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT (M1122, METHOD B2001)	2	n.d.
CHROMIUM VI	ppm	ANALYSIS BY US EPA 7195A WITH ADVANCE TREATMENT US EPA 3090A	2	n.d.
FORMALDEHYDE	ppm	GM 53315 METHOD B (HPLC)	0.2	n.d.
MERCURY	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3062	2	n.d.
MIREX	ppm	AS PER GCMS	4	n.d.
LEAD	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	794
PBDEs	%	WITH REFERENCE TO 80024/SEC. ANALYSIS WAS PERFORMED BY GC/ECDMS OR HPLC/DAD/MS.	0.005	n.d.
PBDEs	%	WITH REFERENCE TO 80024/SEC. ANALYSIS WAS PERFORMED BY GC/ECDMS OR HPLC/DAD/MS.	0.005	n.d.

Handwritten notes in Chinese: 無鉛, 無鎘, 無汞, 無六價鉻, 無多氯聯苯, 無多溴聯苯



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

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Chemical Laboratory - KAO, SGS Taiwan Ltd.

TEST REPORT

SAMPLE RETURN

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PCB(POLYCHLORINATED BIPHENYLS)	ppm	AS PER GC/ECDMS	0.5	n.d.
POLYCHLORINATED NAPHTHALENE	ppm	AS PER GC/MS	5	n.d.
PENTACHLOROPHENOL	ppm	DIN 53313	0.03	n.d.
PCT(POLYCHLORINATED TERPHENYLS)	ppm	AS PER GC/ECDMS	0.5	n.d.
PVC FREE TEST	---	FTIR/ATR AND FLAME TEST	---	n.d.
ORGANOTIN COMPOUNDS	---	---	---	---
TRIBUTYL TIN(TBT)	ppm	BY USING GC/PCD WITH THE PROCEDURE OUTLINE IN DIN 38407.	0.03	n.d.
TRIPHENYL TIN(TPT)	ppm	BY USING GC/PCD WITH THE PROCEDURE OUTLINE IN DIN 38407.	0.03	n.d.
AZO	---	---	---	---
1)4-AMINODIPHENYL (CAS NO. 92-67-1)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
2)BENZENE (CAS NO. 70-83-6)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
3)4-CHLORO-O-TOLUIDINE (CAS NO. 96-69-2)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
4)2-NAPHTHYLAMINE (CAS NO. 91-59-8)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
5)D-AMINO-AZOTOLUENE (CAS NO. 97-96-3)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
6)2-AMINO-4-NITROTOLUENE (CAS NO. 99-85-8)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
7)P-CHLOROANILINE (CAS NO. 106-47-6)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
8)2,4-DIAMINOANISOLE (CAS NO. 618-06-4)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
9)4,4'-DIAMINODIPHENYLMETHANE (CAS NO. 101-77-6)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.
10)3,3'-DICHLORO BENZIDINE (CAS NO. 91-64-1)	ppm	LMBG 82.03-2 (GC/MS)	3	n.d.



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12011



Chemical Laboratory - KAO, SGS Taiwan Ltd.

TEST REPORT

SAMPLE RETURN

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TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
11) 3,3'-DIMETHOXYBENZIDINE (CAS NO.118-93-4)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
12) 3,3'-DIMETHYLBENZIDINE (CAS NO.118-93-7)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
13) 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS NO.535-85-0)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
14) P-CRESIDINE (CAS NO.130-71-8)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
15) 4,4'-METHYLENE BIS(2-CHLORANILINE) (CAS NO.101-14-4)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
16) 4,4'-OXYDIANILINE (CAS NO.101-80-4)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
17) 4,4'-THIODIANILINE (CAS NO.135-85-1)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
18) O-TOLIDINE (CAS NO.89-53-4)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
19) 2,4-TOUYLENDIAMINE (CAS NO.89-82-7)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
20) 2,4,6-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
21) 4-AMINOAZOBENZENE (CAS NO.80-69-8)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.
22) O-ANISIDINE (CAS NO.90-04-0)	ppm	LMBG 82.02-2 (GC/MS)	3	n.d.

NOTE : n.d. = not detected.

<END>



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SGS Taiwan Ltd. No. 108, Chang-Hua 2nd Road, San-Min District, Kaohsiung, Taiwan / 高雄市中區中二路208號  
中華經濟技術發展有限公司 1 (886) 71 313-2000 F (886) 71 313-1084 www.sgs.com.tw  
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## Test Report

YAGEO CORPORATION NANTZE BRANCH

16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
TAIWAN, R. O. C.

Report No. : CE/2005/12359

Date : 2005/01/21

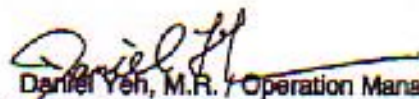
Page : 1 of 13

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

Type of Product : MLCC 0805  
Sample Received : 2005/01/14  
Testing Date : 2005/01/14 TO 2005/01/21

---

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

YAGEO CORPORATION NANTZE BRANCH  
 16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
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## Test Result

PART NAME NO.1 : MIXED ALL PARTS (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Asbestos				
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Crocodolite(CAS NO.012001-28-4)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Amosite(CAS NO.012172-73-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Tremolite(CAS NO.014567-73-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Chrysotile(CAS NO.012001-29-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Actinolite(CAS NO.013768-00-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative

Test Item (s):	Unit	Method	MDL	Result
				No.1
AZO		As per LMBG 8202-2		
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4- DIAMINODIPHENYLMETHA NE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
O-TOLUIDINE (CAS NO.95-53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-ANISIDINE (CAS NO.90-04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
CFC's(Chlorofluorocarbons)		With reference to US EPA 8260.		
Group I				
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Group III				
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chlorinated Paraffin (C10-C13) (CAS NO:010871-26-2)	%	Analysis was performed by GC/MS.	0.01	N.D.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Formaldehyde(CAS No:000050-00-0)	ppm	With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Halon		With reference to US EPA 8260.		
Halon-1211	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Halon-1301	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Halon-2402	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
HCFC's(Hydrogenated chlorofluorocarbons)		With reference to US EPA 8260.		
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Hydrochlorofluorocarbon-121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-131b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-221	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

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## Test Report

YAGEO CORPORATION NANTZE BRANCH

16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
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Test Item (s):	Unit	Method	MDL	Result
				No.1
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-223	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-224	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-225ca(CAS No.:000422-56-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-225cb(CAS No.:000507-55-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-231	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-232	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-233	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Hydrochlorofluorocarbon-234	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-235(CAS No.:013838-16-9)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-241	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-242	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-244	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-251	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-252	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

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## Test Report

YAGEO CORPORATION NANTZE BRANCH

16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
TAIWAN, R. O. C.

Report No. : CE/2005/12359

Date : 2005/01/21

Page : 10 of 13

Test Item (s):	Unit	Method	MDL	Result
				No.1
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon-271	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Mirex(CAS NO:002385-85-5)	ppm	Analysis was performed by GC/MS.	4	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
1,1,1-trichloroethane	ppm	With reference to US EPA 8260. Analysis was performed by GC/MS.	1	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Organic-tin compounds				
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.

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## Test Report

YAGEO CORPORATION NANTZE BRANCH

16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
TAIWAN, R. O. C.

Report No. : CE/2005/12359

Date : 2005/01/21

Page : 11 of 13

Test Item (s):	Unit	Method	MDL	Result
				No.1
Carbon tetrachloride	ppm	With reference to US EPA 8260. Analysis was performed by GC/MS/HEADSPACE.	1	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Polychlorinated Naphthalene	ppm	With reference to USEPA 8081B. Analysis was performed by GC/MS.	5	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
PCTs(Polychlorinated Terphenyls)	ppm	Analysis was performed by GC/ECD/MS.	0.5	N.D.

Test Item (s):	Unit	Method	MDL	Result
				No.1
PVC free(CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro-GC/MS.	-	Negative

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## Test Report

YAGEO CORPORATION NANTZE BRANCH  
16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
TAIWAN, R. O. C.

Report No. : CE/2005/12359  
Date : 2005/01/21  
Page : 12 of 13

Test Item (s):	Unit	Method	MDL	Result
				No.1
Halogen		As per EN14582 method B.		
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	540.0
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Iodine (I)(CAS No:007553-56-2)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, analyzed by ICP.	50	N.D.

- NOTE: (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit  
(4) " --- " = Not Applicable  
(5) " - " = No Regulation  
(6) \* = Results shown are of the adjusted analytical results  
(7) \*\* = Qualitative analysis (No Unit)  
(8) Negative = Undetectable / Positive = Detectable

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## Test Report

YAGEO CORPORATION NANTZE BRANCH  
16, WEST 3RD, N. E. P. Z. P. O. BOX 35-106 KAOHSIUNG,  
TAIWAN, R. O. C.

Report No. : CE/2005/12359  
Date : 2005/01/21  
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**CE/2005/  
12359**

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石黑华利

SGS

## Test Report

No.: GZSCR050533114/LP

Date: JUN 02, 2005

Page 1 of 4

TSUEN JYI PLASTIC CO., LTD.  
SECOND INDUSTRIAL PARK,  
JIANGBEI VILLAGE, WUSHA PRECINCT,  
CHANGAN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P.R.CHINA

Report on the submitted sample said to be APS


SGS Ref No. : GZ050505871EC-9.8  
Buyer : SONY  
Sample Receiving Date : MAY 27, 2005  
Testing Period : MAY 27, 2005 TO JUN 02, 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 digestion 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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GZCM 200735

SGS (China) Limited, P.O. Box 1259, Gongchen Road, Shanghai, China 200001 (86-21) 61032000 (86-21) 61032001 [www.sgs.com](http://www.sgs.com)  
中國·上海·四川路1259號瑞士工商服務有限公司 郵政信箱10000 (86-21) 61032000 (86-21) 61032001 [sgs-china@sgs.com](mailto:sgs-china@sgs.com)





## Test Report

No.: GZSCR050533114/LP

Date: JUN 02, 2005

Page 2 of 4

## Results :

(1)

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

Dk-grey plastic sheet

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

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

(2)

Flame Retardants	Dk-grey plastic sheet	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
Decabromodiphenyl	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
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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GZCM 263234









## Test Report

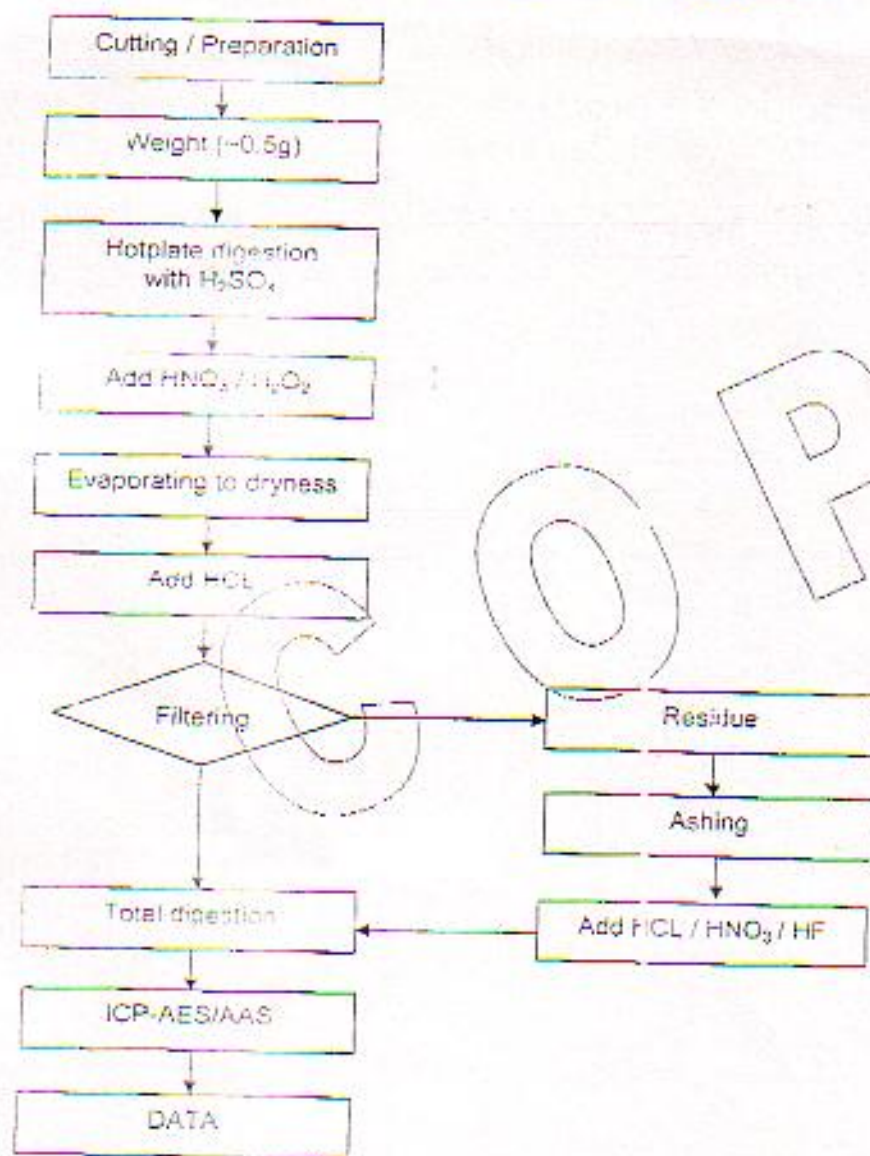
No.: GZSCR050533114/LP

Date: JUN 02, 2005

Page 4 of 4

(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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GZCM 263237



石黑华利

SGS

## Test Report

No.: GZSCR050533114/LP

Date: JUN 02, 2005

Page 1 of 4

TSUEN JYI PLASTIC CO., LTD.  
SECOND INDUSTRIAL PARK,  
JIANGBEI VILLAGE, WUSHA PRECINCT,  
CHANGAN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE, P.R.CHINA

Report on the submitted sample said to be APS


SGS Ref No. : GZ050505871EC-9.8  
Buyer : SONY  
Sample Receiving Date : MAY 27, 2005  
Testing Period : MAY 27, 2005 TO JUN 02, 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 digestion 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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GZCM 200735

SGS (China) Limited, Building 1, No. 100, Zhongyuan Road, Dongguan City, Guangdong Province, P.R. China. Tel: +86 (0)769 22119999 Fax: +86 (0)769 22119998 www.sgs.com.cn  
中國·廣東·東莞市南城絲絲山路100號工業園1號大樓 郵政編碼: 510030 電話: +86 (0)769 22119999 傳真: +86 (0)769 22119998 e-mail: sgschina@sgs.com.cn



# Test Report

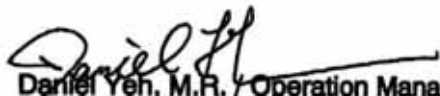
久禾紙器業股份有限公司  
\*508 彰化縣和美鎮嘉黎里東原路211巷196號

報告號碼 : CE/2004/C1594  
日期 : 2004/12/16  
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 : 彩盒  
收件日期 : 2004/12/09.  
測試日期 : 2004/12/09 TO 2004/12/16

=====  
測試結果 : - 請見下一頁 -

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





# Test Report

久禾紙器業股份有限公司  
 \*508 彰化縣和美鎮嘉黎里東原路211巷196號

報告號碼 : CE/2004/C1594  
 日期 : 2004/12/16  
 頁數 : 2 of 3

## 測試結果

測試部位 NO.1 : 白色紙盒有藍,灰,白色印刷(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				法規 限值
				NO.1				
94/62/EEC								
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.				-
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	N.D.				-
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.				-
六價鉻	ppm	依照US EPA 7196A及3060A 方法	2	N.D.				-
六價鉻+鉛+鎘+汞	ppm	六價鉻+鉛+鎘+汞總和 (94/62/EEC)	-	N.D.				100

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

久禾紙器業股份有限公司  
\*508 彰化縣和美鎮嘉黎里東原路211巷196號

報告號碼 : CE/2004/C1594  
日期 : 2004/12/16  
頁數 : 3 of 3



## Test Report

CHIA CHERNE INDUSTRY CO., LTD.  
NO. 55, ALLEY 121, LANE 175, KOUSHENG RD.,  
CHANGHUA CITY, TAIWAN

Report No. : CE/2004/82170  
Date : 2004/08/26  
Page : 1 of 1

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

Type of Product : FAN LABEL  
Sample Received : 2004/08/17  
Testing Date : 2004/08/17 TO 2004/08/26

### Test Result

PART NAME NO.1 : SILVER STICKER WITH MULTICOLORED PRINTED

Test Item (s):	Unit	Method	MDL	Result				
				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	N.D.				

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

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



# 光輪工業股份有限公司

Lai Advance Industry Co., Ltd.

No. 46-4, Chiahsi 2 lane, Chiahsi Tsun, Tatsun Hsiang, Changhua Hsien, Taiwan R.O.C.

Tel: 04-852-2060 Fax: 04-852-4160 e-mail: [eps@laiadvance.com.tw](mailto:eps@laiadvance.com.tw)

## EPE 舒美布材質證明書

材	低密度聚乙烯塑膠粒
	滑石粉(成核劑)
	發泡劑(丁烷)
	硬脂酸鈣(安定劑)
質	防收縮劑





# Test Report

光輪工業股份有限公司  
\*515彰化縣大村鄉加錫村二巷46-4號

報告號碼 : CE/2005/76060A  
日期 : 2005/08/04  
頁數 : 1 of 8

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : 聚乙烯發泡板  
收件日期 : 2005/07/28.  
測試日期 : 2005/07/28 TO 2005/08/04

測試結果 : - 請見下一頁 -

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

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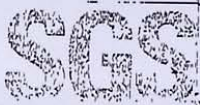
TW 2156326

SGS Taiwan Ltd. | No. 33 Wu Chyuan Road, Wuku Industrial Zone, Taigui 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) 2299-3939 | ☎ (006-2) 2299-3237 | www.tw.sgs.com

94 09/07 WED 16:02 FAX 886 04 8524160 tai advance industry co

100





# Test Report

光輪工業股份有限公司  
\*515彰化縣大村鄉加錫村二巷46-4號

報告號碼 : CE/2005/76060A  
日期 : 2005/08/04  
頁數 : 2 of 8

## 測試結果

測試部位 NO.1 : 白色泡棉(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
石棉				
斜方角閃石(CAS NO.017068-78-9)	**	參考 NIOSH 9000 / X光繞射定性分析法(XRD)	-	Negative
青石棉(CAS NO.012001-28-4)	**	參考 NIOSH 9000 / X光繞射定性分析法(XRD)	-	Negative
棕石棉(CAS NO.012172-73-5)	**	參考 NIOSH 9000 / X光繞射定性分析法(XRD)	-	Negative
透閃石(CAS NO.014567-73-8)	**	參考 NIOSH 9000 / X光繞射定性分析法(XRD)	-	Negative
白石棉(CAS NO.012001-29-5)	**	參考 NIOSH 9000 / X光繞射定性分析法(XRD)	-	Negative
陽起石(CAS NO.013768-00-8)	**	參考 NIOSH 9000 / X光繞射定性分析法(XRD)	-	Negative

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
CFC		以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析		
Group I				
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Group III				
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.

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TW 2156325





# Test Report

光輪工業股份有限公司

\*515彰化縣大村鄉加錫村二巷46-4號

報告號碼 : CE/2005/76060A

日期 : 2005/08/04

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測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
Chlorofluorocarbon-112(CAS No.:000076-12-0)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-211(CAS No.:135401-87-5)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-212(CAS No.:076564-99-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-213(CAS No.:060285-54-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-214(CAS No.:002268-46-4)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-215(CAS No.:000076-17-5)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-216(CAS No.:001652-80-8)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.
Chlorofluorocarbon-217(CAS No.:000422-86-6)	ppm	以氣相層析質譜儀(GC/MS)檢測-(CFCs)定量分析	1	N.D.

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
海龍(Halons)		參考US EPA 8260方法		
Halon-1211	ppm	參考US EPA 8260方法,以頂空氣體捕捉裝置,連接氣相層析質譜(GC/MS)檢測(CFCs)定量分析	1	N.D.
Halon-1301	ppm	參考US EPA 8260方法,以頂空氣體捕捉裝置,連接氣相層析質譜(GC/MS)檢測(CFCs)定量分析	1	N.D.
Halon-2402	ppm	參考US EPA 8260方法,以頂空氣體捕捉裝置,連接氣相層析質譜(GC/MS)檢測(CFCs)定量分析	1	N.D.

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
臭氧危害物ODCs(HCFCs)定量分析		參考US EPA 8260方法		
Hydrochlorofluorocarbon-21(CAS No.:000075-43-4)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-22(CAS No.:000075-45-6)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.

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TW 2156324



# Test Report

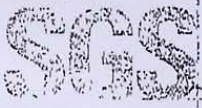
光輪工業股份有限公司  
\*515彰化縣大村鄉加錫村二巷46-4號

報告號碼 : CE/2005/76060A  
日期 : 2005/08/04  
頁數 : 4 of 8

測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
Hydrochlorofluorocarbon-31(CAS No.:000593-70-4)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-121(CAS No.:000354-14-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-122(CAS No.:000354-21-2)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-123(CAS No.:000306-83-1)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-124(CAS No.:002837-89-0)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-131(CAS No.:000359-28-4)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-131b(CAS No.:000471-43-2)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-133a(CAS No.:000075-88-7)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-141b(CAS No.:001717-00-6)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-221	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-222(CAS No.:000422-30-0)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-223	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-224	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-225ca(CAS No.:000422-56-0)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-225cb(CAS No.:000507-55-1)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-226(CAS No.:000431-87-8)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-231	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-232	ppm	以氣相層析質譜儀(GC/MS)檢測-(HCFCs)定量分析	1	N.D.

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1W 2156323



# Test Report

光輪工業股份有限公司  
\*515彰化縣大村鄉加錫村二巷46-4號

報告號碼 : CE/2005/76060A

日期 : 2005/08/04

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測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
Hydrochlorofluorocarbon-233	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-234	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-235(CAS No.:013838-16-9)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-241	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-242	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-243(CAS No.:000338-75-0)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-244	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-251	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-252	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-253(CAS No.:000354-06-1)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-261(CAS No.:000420-97-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-262(CAS No.:000420-97-3)	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.
Hydrochlorofluorocarbon-271	ppm	以氣相層析質譜儀(GC/MS)檢測-(HFCs)定量分析	1	N.D.





# Test Report

光輪工業股份有限公司

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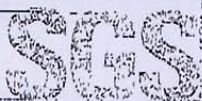
日期：2005/08/04

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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.

測試項目：	單位	測試方法	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS做分析	2	N.D.
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.
鉻	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	N.D.





# Test Report

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\*515彰化縣大村鄉加錫村二巷46-4號

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測試項目:	單位	測試方法	偵測極限值	結果
				NO.1
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.
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	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

(5) " --- " = Not Applicable / 未測項目

(6) \*\*定性分析(無單位)

(7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

(8) \* = 表示依法規規定調整之數據

(9) 若為氯化石蠟中單一化合物,則偵測極限為5ppm



# Test Report

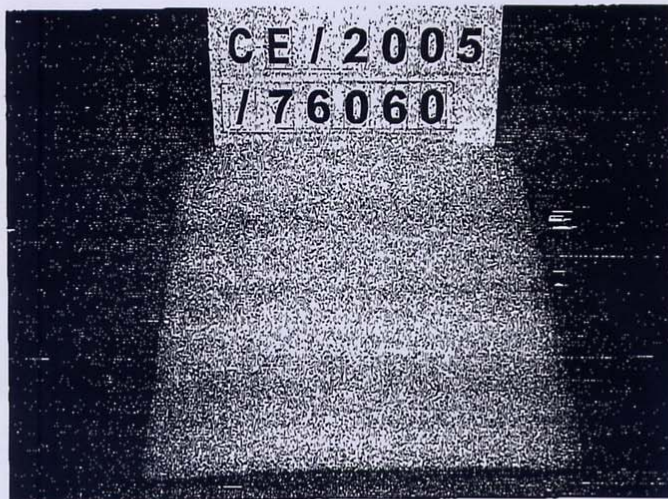
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1W 2156319

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