

Company name:

ICP Test Report Certification Packet

Littelfuse, Inc.

Product Series:	216 series Axial Leaded Fuse	
Product #:	216XEP	
Issue Date:	August 13, 2012	
2011/65/EU)-restricted so packing/packaging material In addition, it is hereby refor unit parts, the packing/	ubstance nor such use, for mater als, and for additives and the like in ported to you that the parts and sub	RoHS (EU Directive 2002/95/EC, ials to be used for unit parts, for the manufacturing processes. -materials, the materials to be used res and the like in the manufacturing
	Issued by:	mil BACILA
	<global ehs<="" td=""><td>Engineer ></td></global>	Engineer >
(1) Parts, sub-materials a This document cov Littelfuse, Inc.	•	nt series products manufactured by
< Raw Materials U Please see Tab		
(2) The ICP data on all I	neasurable substances ropriate pages as identifed in Table	1
Remarks :		



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	910-005	Сар	3-6
2	692539-002	Solder	7-11
3	909-455	Body	12-22
4	091251	Sand Filler (RoHs & Halogens)	23-28
5	082xxx	Wire-AgCu	29-38
6	C030210	Overcap (Cap base & plating)	39-42
7	C030210	Overcap (Wire base & plating)	39-42



NO.: A002R12050740-1R02 Date: May. 09, 2012 Page 1 of 4

Customer: SuZhou FuHong Electronic Industrial Co., Ltd.

Address: NO. 89 WEI DU ROAD, WANGTING TOWN, XIANGCHENG DISTRICT, SUZHOU, CHINA

Report on the submitted sample said to be

Sample name: Copper shell

Model: /

Item/Lot No.: / Material: / Buyer: / Supplier: /

Manufacturer: /

Sample received date: May. 07, 2012

Testing period: From May. 07, 2012 to May. 09, 2012

Testing Requested

As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).

Testing method:

Testing Item	Pretreatment method	Measuring instrument	MQL
Lead (Pb)	IEC 62321: 2008, section 9	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321: 2008, section 9	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321: 2008, section 7	ICP-OES	2 mg/kg
Chromium (Cr VI)	IEC 62321: 2008, Annex B	UV-VIS	0.02mg/kg*

Note:

Conclusion:

-When tested as specified the submitted sample complied with the requirements of commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC.

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)******

Signed for and on behalf of Shenzhen AOV Testing Technology Co., Ltd, Kunshan Branch

Project Leader:

Li Tingting, Maggie

Chemical Test Director

Reviewed by: Weik

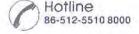
Wang Wexin, Weikin

Technical Director

Approved by:

Yuan Qi, Mickey

Lab Manager



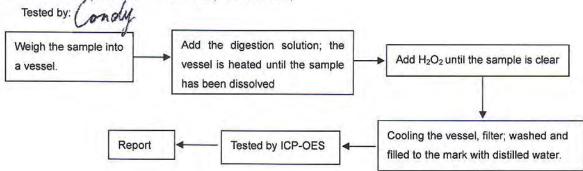
^{-* 0.02} mg/kg refers to the MQL of sample extraction liquid.



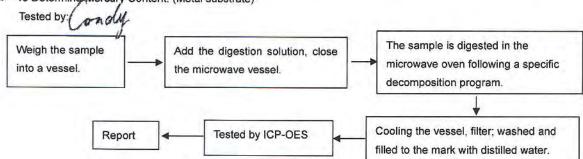
NO.: A002R12050740-1R02 Date: May. 09, 2012 Page 2 of 4

Test Flow:

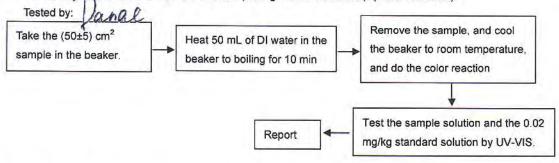
1. To Determine Lead, Cadmium Content: (Metal substrate)



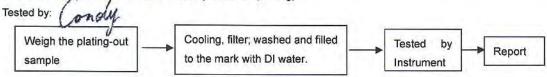
2. To Determine Mercury Content: (Metal substrate)



3. To Determine Hexavalent Chromium Content (boiling- water- extraction): (Metal substrate)



4. To Determine Lead, Cadmium and Mercury Content: (Plating)







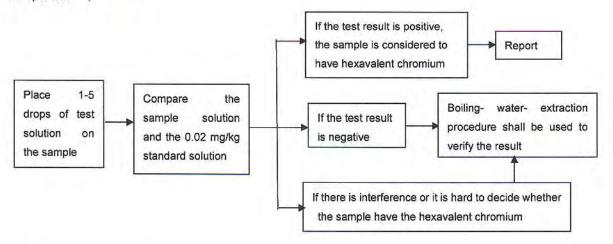
NO.: A002R12050740-1R02

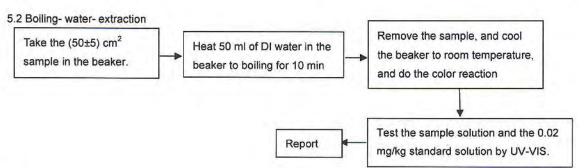
Date: May. 09, 2012

Page 3 of 4

To Determine Hexavalent Chromium Content in colorless and colored chromate coating on metals: (Plating)
 Tested by: 1







Sample Description:

Code	Sample Description
1-1	Substrate
1-2	Plating

Test Results:

Item	Unit	RoHS Limit	Results		
_			1-1	1-2**	
Lead (Pb)	mg/kg	1000	N.D.	N.D.	
Cadmium (Cd)	mg/kg	100	N.D.	N.D.	
Mercury (Hg)	mg/kg	1000	N.D.	N.D.	
Chromium (CrVI)	mg/kg	1000	Negative	Negative	





NO.: A002R12050740-1R02 Date: May. 09, 2012

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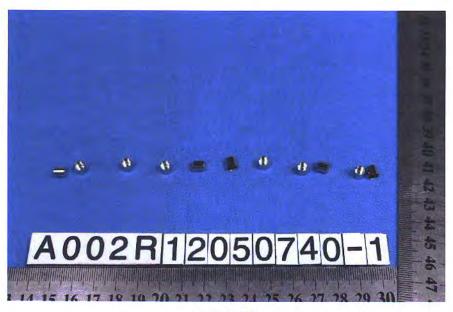
Note:

- -The new RoHS directive 2011/65/EU, on Jul. 21, 2011 come into force, on Jan. 03, 2013 the formal implementation, Directive 2002/95/EC shall be repealed simultaneously.
- -Specimens, which requested to determine Lead, Cadmium and Mercury Content, have been dissolved completely.
- -mg/kg=ppm
- -N.D.=not detected(<MQL)
- -MQL=Method Quantitation Limit
- -Negative=Absence of Cr (VI);
- -Positive=Presence of Cr (VI);

Uncertain= can not verify whether the sample have Hexavalent Chromium by spot-test.

- (The tested sample should be further verified by boiling-water-extraction method if the spot test result is uncertain or negative.)
- -**The test is based on the following assumption: The sample plating is a single layer and each part is uniform. The test result maybe cannot stand for the physical truth of sample plating.
- -Photo is included

Photograph of Sample



Copper shell

End of Report





Test Report

No. SHAEC1116009839

Date: 14 Oct 2011

Page 1 of 5

ZHEJIANG ASIA GENERAL SOLDERING & BRAZING MATERIAL CO.,LTD XIHU INDUSTRIAL PARK,SANDUN,HANGZHOU CITY,ZHEJIANG PROVINCE,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: LEAD-FREE SOLDER

WIRE

SGS Job No.:

SP11-030781 - SH

Model No.:

YTW102(692539-002)

Composition:

Sn2.0CuRE

Date of Sample Received :

09 Oct 2011

Testing Period:

09 Oct 2011 - 13 Oct 2011

Test Requested:

Selected test(s) as requested by client.

Test Method:

Please refer to next page(s).

Test Results:

Please refer to next page(s).

Conclusion:

Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Fan Jingjie, JJ Approved Signatory

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Test Report

No. SHAEC1116009839

Date: 14 Oct 2011

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

1 SHA11-160098.034 Silvery metal wire

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: With reference to IEC 62321:2008

(1) Determination of Cadmium by ICP-OES.

(2) Determination of Lead by ICP-OES.

(3) Determination of Mercury by ICP-OES.

(4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

(5) Determination of PBBs / PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	034
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	165
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	-	-	\Diamond	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	4	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	e	mg/kg	5	ND
Hexabromobiphenyl	2	mg/kg	5	ND
Heptabromobiphenyl	.90	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	i A	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Report	No. SHAEC11160098	39	Date: 14	Oct 2011	Page 3 of 5
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	034	
Dibromodiphenyl ether		mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	2	mg/kg	5	ND	
Pentabromodiphenyl ether	4	mg/kg	5	ND	
Hexabromodiphenyl ether	4	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	14	mg/kg	5	ND	
Nonabromodiphenyl ether	14.	mg/kg	5	ND	
Decabromodiphenyl ether	- 4	mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) O Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.

Boiling-water-extraction:

Negative = Absence of CrVI coating; Positive = Presence of CrVI coating

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing

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Test Report

No. SHAEC1116009839

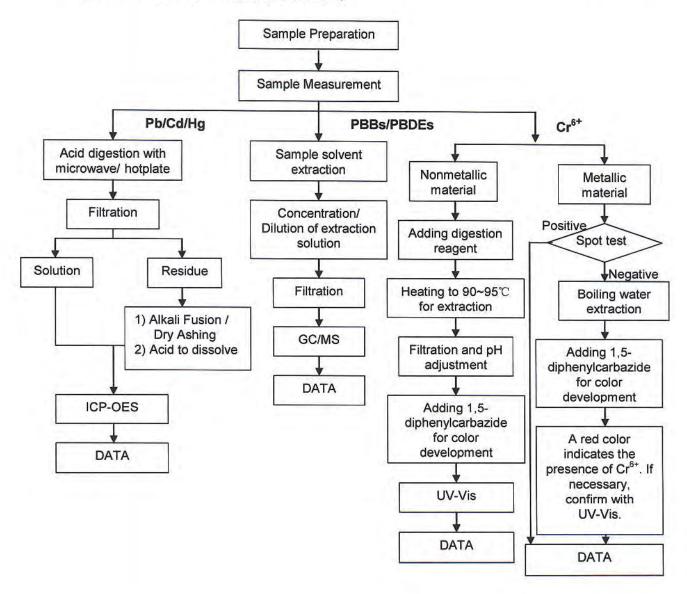
Date: 14 Oct 2011

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Elim Lin
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded)



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Test Report

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Date: 14 Oct 2011

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Sample photo:



SGS authenticate the photo on original report only

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號碼(No.): CF/2012/37057 日期(Date): 2012/04/05 頁數(Page): 1 of 11

Test Report

永晉電瓷股份有限公司 / YUEN JINN ELECTRICAL CERAMIC CO., LTD. (永晉宣瓷(蘇州)有限公司 / YUEN JINN ELECTRICAL CERANTC (SUZHOU) CO., [7]).) 新北市樹林區豐林街40號 / NO. 40, FENG LIN ST., SHU LIN DIST., NEW TAIPE! CITY, TAIWAN (江蘇省吳江市松陵鎮江陵西路 / JIANG LING WEST ROAD SONG LING TOWN WU JIANG CITY JIANG SU CHINA P. R. C.)

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and

樣品名稱(Sample Description)

identified by/on behalf of the client as):

: CERAMIC BASE (陶瓷體)

樣品型號(Style/Item No.)

: YJ50/YJM

批號(Barch No.)

: A28

收件日期(Sample Receiving Date)

: 2012/3/28

測試期間(Testing Period)

: 2012/3/28 TO 2018/04/05

測試結果(Test Results)

請見下一頁 (Please refer to next pages).

結論(Conclusion)

根據客户所提供的樣品。其錫、鉛、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果符合 RollS指令2002/95/EC的更新指令9111/65/ED之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead. Mercury. Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.)

Chenyu Kung / Signed for and on behalf on SGS TAIWAN LTD. Chemical Laboratory - Taipei

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ACCUPATION OF THE REPORT OF THE PARTY OF THE



Test Report

日期(Date): 2012/04/05 頁數(Page): # 11 魏码(No.): CE/2012/37057

永晉電瓷股份有限公司 / YUEN JINN ELECTRICAL GERAMIC CO., LTD. (永晉電瓷(蘇州)有限公司 / YUEN JINN ELECTRICAL CERAMIC (SUZHOU) CO., LTD.) 新北市樹林區豐林街40號 / NO. 40, FENG LIN ST., SHU LIN DIST., NEW TAIPEI CITY, TAIWAN (江蘇省吳江市松陵鎮江陵西路 / JIANG LING WEST ROAD SONG LING TOWN WU JIANG CITY JIANG SH CHINA P. R. C.)

测试结果(Test Results)

测试部位(PART NAME)No.1

白色陶瓷 (WHITE CERAMIC)

測試項目 (Test liems)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	法规 限值 (Limis)
鎬 / Cadmium (Cd)	mg/kg	參考1HX 62321: 2008方法,以感應耦合電	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	業原子發射光譜儀檢測. / With reference to NXC 62321: 2008 and performed by	3	16	1000
汞 / Mercury (Ng)	mg/kg	ICP-AES.	2	n.d.	1000
去價絡 d Hexavalent Chromium Cn(VI)	mg/kg	参考(EC 6232): 2008方法,以UV-VIS檢測, / With reference to IEC 62321: 2008 and performed by UV VIS.	2	n.d.	1000
会換環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	參考US EPA 3540C方法,以氣相層析/質譜 儀檢測。/ With reference to US EPA 354UC method, Analysis was performed by GC/MS.	- 5	n.d.	
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Sali, Amide)	mg/kg	参考US EPA 3540C: 1996方法,以液相唇析/質譜儀檢測全藏辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PPOS Content. Analysis was performed by LC/WS.		n.d.	- 3
全氣辛酸(銨) / PYOA (CAS No.; 335-67-1)	mg/kg	The second secon	-	n.d.	
鄭苯二甲酸甲苯基丁酯 / BBP (Mensyl buryl phihalate) (CAS No.: 85-68-7)	*	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372, Analysis was performed by GC/MS.	0.003	n.d.	

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Test Report

號碼(No.): CE/2012/37057 頁数(Page): 3 of 11 日期(Date): 2018/04/05

STATES CONTROL OF THE PARTY.

永晉電瓷股份有限公司 / YUEN JINN ELECTRICAL CERAMIC CO., ITO-(永晉電瓷(蘇州)有限公司 / YUEN JINN ELECTRICAL CERAMIC (SUZHOU) CO., LTD.) 新北市樹林區豐林街40號 / NO. 40、FENG LIN ST., SHU LIN DIST., NEW TAIPEI CITY, TAIWAN (江駭省吳江市松陵鎮江陵西路 / J) ANG LING WEST ROAD SONG LING TOWN WU JIANG CITY JIANG SU CHINA P. R. C.)

測試項目 (Test Items)	單位 (Unit)	测试方法 (Method)	方法偵測 極限値 (MDL.)	結果 (Resuli) No.1	決規 限値 (Limit)
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-sthylhoxyl) phthalate) (CAS No.: 117-81-7)	36	参考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0,003	N-W-	-
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.s 26761-46-0)	Đ,	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	3€,
郵苯二甲酸二異去酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553-12-0)	Sign Sign Sign Sign Sign Sign Sign Sign	參考EN 14372。以氣相層析/質譜儀檢測之. / With reference to RN 14372. Analysis was performed by GC/MS.	0.01	nede	÷
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117- 84-0)	*	多考FN 14372, 以氣相層析/實譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
都苯二甲酸二丁酯 / DBP (Dibuty) phihalate) (CAS No.; 84-74-2)	70.	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.		n.d.	
商素 / Halogen					
鹵素 (氣) / Halogen-Pluorine (F) (CAS No.: 14762-94-8)	mg/kg		1.5()	n.d.	
鹵素(氦)/ Halogen-Chlorine (CI) (CAS No.: 22537-15-I)	mg/kg	參考RS EN 1/1582:2007、以離子層析儀分析: / With reference to BS EN	50	ग ∍ लें +।	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2007. Analysis was performed by IC.	:50	n.d.	-
鹵素 (碘) / Halogen-Indine (1) (CAS No.: 14362-44-8)	nig/kg		.50	n.d.	

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Test Report

號稿(No.): CE/2012/37057 日期(Date): 2012/04/05 頁數(Page): 4 of 11

BULLEY TRANSPORT STREET, WAS AND DOMESTIC. 永會電瓷股份有限公司 / YUEN JINN ELECTRICAL CERAMIC CO., LTD.

(永晉電瓷(蘇州)有限公司 / YUEN JINN ELECTRICAL CFRAMIC (SUZHOU) CO., LTD.) 新北市樹林區豐林街40號 / NO. 40、FENG LIN ST., SHU LIN DIST., NEW TAIPEI CITY, TAIWAN (江蘇省吳江市松陵鎮江陵西路 / JIANG LING WEST ROAD SONG LING TOWN WU JIANG CITY JIANG SU CHINA P. R. C.)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	法規. 限值
(lest frems)	(duit)	(method)	(MDL)	No.: I	(Limit.)
多溴磷苯總和 / Sum of PBBs	ng/kg		- 0×0	n.d.	1000
一溴聯苯 / Manabramabiphenyl	mg/kg		5	n.d.	- è -
二溴聯苯 / Dibromobiphenyl	mg/kg		В	क और	4
三溴聯苯 / Tribromobiphenyl	mg/kg		5	ii ali	e_
四溪聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	
五溴醇苯 / Pentabromobiphonyl	mg/kg		5	n.d.	1
六溴聯苯 / Hexabramohiphonyl	mg/kg		5	n.d.	
七溴聯苯 / Heptabromobipheny!	ng/kg		5	n.d.	1
八溴聯基 / Octabromobipheoy!	mg/kg		5	n.d.	-
九後聯苯 / Nonabramahijhenyl	mg/kg	a second control of the second control of th	5	n.d.	÷
十溴聯苯 / Decahromolijpheny!	mg/kg	參考IEC 69321: 2008方法, 以氣相層析儀/	5	n.d.	X
多溴聯苯醚總和 / Sum of PBDEs	mg/Rg	質譜儀檢測,/ With reference to LEC 62321: 2008 and performed by GC/MS,	112	m.d.	1000
一溴聯苯醚 / Mamabramadiphenyl ether	mg/kg	uzuzi. sind and periorised by sorner	5	n.d.	
二溴聯苯醚 / Dibrowediphenyl ether -	mg/kg		5	n.d.	7 8
三溴聯苯醚 / Tribromodiphenyl ather	- mg/kg		5	n.d.	100
四溴聯苯醚 / Telrabromodiphecyl ether	mg/kg		6	n.d.	-
五溴聯苯醚 / Pentabramadighenyl ether	mg/kg		5	n.d.	1
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	
七溴聯苯醚 / Heptabromodiphenyl ciber	mg/kg		Đ.	n.d.	1
入溴聯苯醚 / Octabrosodiphenyl other	mg/kg		.57	n.d.	
九溴聯苯醚 / Nanabramadiphenyl other	mg/kg		5	n.d.	1000
十溴哪苯醚 / Decabromodiphonyl ether	mg/kg	1	- Z	mod:	100

備註(Note):

1. mg/kg = ppm; 0. (web = 1000ppm

3. n.d. = Not Delected (未检出)

8. MDL = Method Detection Limit (方法侦测極限值)

4, "-" = Not Regulated (無規格值)

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Test Report

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PPOS參考資訊(Reference Information): 持久性有機污染物 POPs (EU) 757/2010

PPOS濃度在物質或製備中不得超過0,001%(10ppm),在半成品,成品或零部件中不得超過0.1%(1000ppm),在紡織品或 塗層材料中不得超過Tug/m?。

(Outlawing PPOS as substances or proparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textites or other coated materials above lug/m?.)

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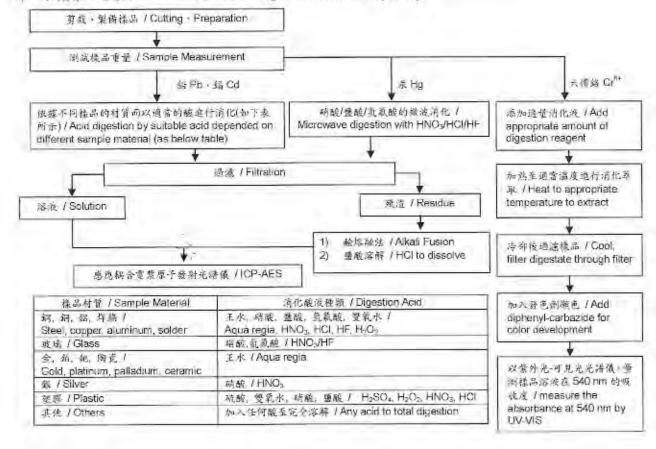
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號稿(No.): CE/2012/37057 日期(Date); 2012/04/05 頁數(Page); 6 nf II

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SERVICE OF CONTROL SHOWING MADE IN THE

- 根據以下的流程圖之條件,樣品已完全溶解。(云價格測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr²⁺ test method excluded)
- 测试人员:畸登修 / Name of the person who made measurement: Climbgreat Yang
- 测试负责人: 张序典 / Name of the person in charge of measurement. Troy Chang 3)



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CHINA P. R. C.)

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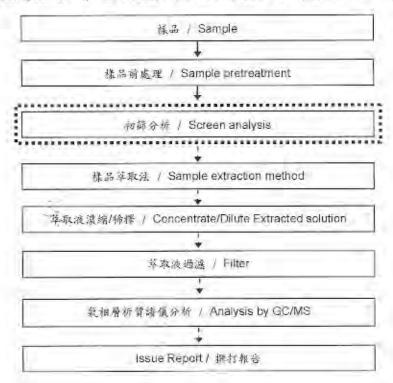
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分析流程圖 / Analytical flow chart

- 测式人员: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 测试负责人: 张啓與 / Name of the person in charge of measurement: Troy Chang 【测试项目(Test Items): 多溴聯苯/多溴聯苯醚、四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis 】

验染剂或程序 / First testing process → 連絡技術序 / Optional screen process • • • ● 確認程序 / Confirmation process ← • ▶



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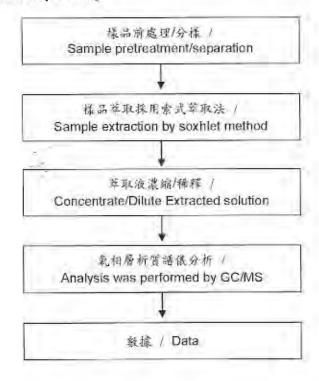
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索式萃取分析流程圖 / Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 割試人員:翁賜夥 / Name of the person who made measurement. Roman Wong
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang

【測試項目:可塑劑、苯並三唑類化合物、六溴環十二烷、壬酚、單甲基二溴二苯基甲烷、 有機磷化合物 / Test Items: Phthalate、Benzotriazole、HBCDD、NP、DBBT、Organic phosphorus compounds]



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REGISTRALISMENTALES



Test Report

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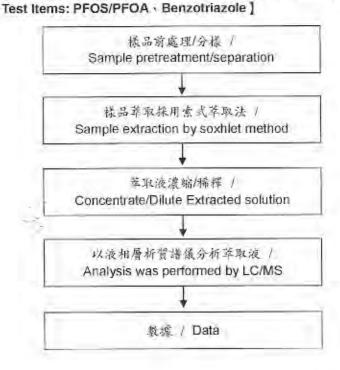
THE RESERVE OF THE PARTY OF THE

索式萃取分析流程圖 /

Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 测载人员: 翁赐彬 / Name of the person who made measurement: Roman Wong
- 测試負責人士張啓興 / Name of the person in charge of measurement: Troy Chang

【測試項目:全氣辛烷磺酸/全氟辛酸(錠)、苯並三唑類化合物/



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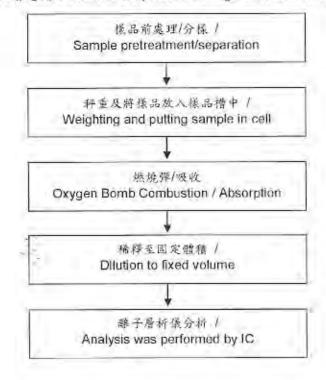
號碼(No.): CB/2012/37057 日期(Date): 2012/04/05 頁數(Page): 10 of 11

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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 测試人員: 陳思臻 / Name of the person who made measurement: Rita Chen
- 2) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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HE SEED BURNEY STREET, THE STREET, B.

* 照片中如有箭頭標示,則表示寫實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2012/37057

** 報告結尾 (End of Report) **

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Test Report Number: TWNC00233073

Applicant: Littelfuse Philippines Inc.

LIMA Technology Center, Lipa City,

Malvar, Batangas

Sample Description:

One (1) group of submitted samples said to be :

Part Description : Sand Filler

Part Number : 091251

Date Sample Received : Nov 17, 2011
Date Test Started : Nov 18, 2011

Test Conducted :

As requested by the applicant, for details please refer to attached pages.

Authorized By:
On Behalf Of Intertek Testing Services
Taiwan Limited



K. Y. Liang
Director

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Date : Nov 23, 2011

Page 1 of 6



Number : TWNC00233073

Test Conducted

(I) Test Result Summary:

) Test Result Summary :	
Test Item	Result (ppm)
Test Item	Light Grey Powder
Heavy Metal	
Cadmium (Cd) content	ND
Lead (Pb) content	ND
Mercury (Hg) content	ND
Chromium VI (Cr ⁶⁺) content	ND
Polybrominated Biphenyls (PBBs)	
Monobrominated Biphenyls (MonoBB)	ND
Dibrominated Biphenyls (DiBB)	ND
Tribrominated Biphenyls (TriBB)	ND
Tetrabrominated Biphenyls (TetraBB)	ND
Pentabrominated Biphenyls (PentaBB)	ND
Hexabrominated Biphenyls (HexaBB)	ND
Heptabrominated Biphenyls (HeptaBB)	ND
Octabrominated Biphenyls (OctaBB)	ND
Nonabrominated Biphenyls (NonaBB)	ND
Decabrominated Biphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers (PBDEs)	
Monobrominated Diphenyl Ethers (MonoBDE)	ND
Dibrominated Diphenyl Ethers (DiBDE)	ND
Tribrominated Diphenyl Ethers (TriBDE)	ND
Tetrabrominated Diphenyl Ethers (TetraBDE)	ND
Pentabrominated Diphenyl Ethers (PentaBDE)	ND
Hexabrominated Diphenyl Ethers (HexaBDE)	ND
Heptabrominated Diphenyl Ethers (HeptaBDE)	ND
Octabrominated Diphenyl Ethers (OctaBDE)	ND
Nonabrominated Diphenyl Ethers (NonaBDE)	ND
Decabrominated Diphenyl Ether (DecaBDE)	ND
Halogen Content	
Fluorine (F)	ND
Chlorine (Cl)	ND
Bromine (Br)	ND
Iodine (I)	ND

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg ND = Not detected

Responsibility of Chemist : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received : Nov 17, 2011

Test Period : Nov 18, 2011 To Nov 22, 2011



Number: TWNC00233073

Test Conducted

(II) RoHS Requirement:

Restricted Substances	<u>Limits</u>
Cadmium (Cd) Content	0.01% (100ppm)
Lead (Pb) Content	0.1% (1000ppm)
Mercury (Hg) Content	0.1% (1000ppm)
Chromium VI (Cr ⁶⁺) Content	0.1% (1000ppm)
Polybrominated Biphenyls (PBBs)	0.1% (1000ppm)
Polybrominated Diphenyl Ehters (PBDEs)	0.1% (1000ppm)

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

(Ⅲ) Test Method:

Test Item	Test Method	Reporting Limit
Cadmium (Cd) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Lead (Pb) content	With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Mercury (Hg) content	With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES.	2 ppm
Chromium VI (Cr ⁶⁺) content	With reference to IEC 62321 edition 1.0:2008 in annex C, by alkaline digestion and determined by UV-Vis spectrophotometer.	1 ppm
Polybrominated Biphenyls (PBBs)	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321 edition 1.0:2008 in annex A, by solvent extraction and determined by GC-MSD and further HPLC confirmation when necessary.	5 ppm
Halogen Content	With reference to EN 14582:2007 by calorimetric bomb with oxygen and determined by ion chromatography	50 ppm

Remark: Reporting limit = Quantitation limit of analyte in sample



Number: TWNC00233073

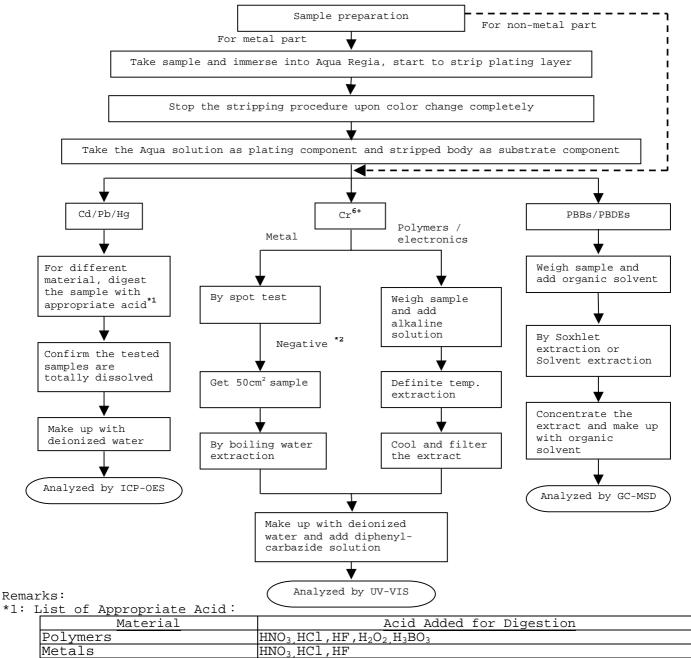
Test Conducted

Electronics

(IV) Measurement Flowchart:

Test for Cd/Pb/Hg/Chromium (VI)/PBBS/PBDES Contents

Reference Standard: IEC 62321 edition 1.0:2008



*2: If the result of spot test is positive, Chromium VI would be determined as detected.

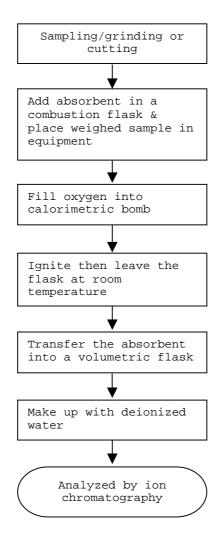
HNO3 HCl, H2O2 HBF4



Number: TWNC00233073

Test Conducted ($\overline{\mathrm{IV}}$) Measurement Flowchart:

Test for Halogen Content Reference Standard: EN 14582



End of Report



Test Conducted

Number: TWNC00233073

Photo





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以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

: SILVER PLATED & PURE SILVER WIRES

樣品型號(Style/Item No.)

: 請參考第5頁 (PLEASE REFER TO PAGE 5)

原產國(Country of Origin)

: 德國 (GERMANY)

收件日期(Sample Receiving Date)

: 2012/01/04

測試期間(Testing Period)

: 2012/01/04 TO 2012/01/11

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).



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測試結果(Test Results)

測試部位(PART NAME) No.1: 混測所有顏色金屬線 (含鍍層) (共6款) (MIXED ALL COLOR METAL WIRE (INCLUDING THE PLATING LAYER) (6 TYPES))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
鉛 / Lead (Pb)	mg/kg	参考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
汞 / Mercury (Hg)	mg/kg	参考IEC 62321: 2008方法,以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	
六價絡 / Hexavalent Chromium Cr(VI)	**	參考IEC 62321: 2008方法,以沸水萃取法檢測. / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative	
* 無辛烷磺酸 / Perfluorooctane mg/kg 参考US EPA 3540C: 1996方法,以液 相層析質譜儀檢測全氣辛烷磺酸含量. mide) / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.		10	n.d.		
全氟辛酸(銨) / PFOA (CAS No.: 335-67- 1)	mg/kg	参考US EPA 3540C: 1996方法,以液相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	

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測試項目 單位 (Unit)		測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl		1	5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
へ溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	参考IEC 62321: 2008方法, 以氣相層	5	n.d.
十溴聯苯 / Decabromobiphenyl		析儀/質譜儀檢測. / With reference	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs 一溴聯苯醚 / Monobromodiphenyl ether 二溴聯苯醚 / Dibromodiphenyl ether		to IEC 62321: 2008 and performed		n.d.
		by GC/MS.	5	n.d.
			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether		V 31	5	n.d.
へ溴聯苯醚 / Octabromodiphenyl ether		1.0	5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether		p.	5	n.d.
鹵素 / Halogen				
鹵素 (氣) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.
鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg	参考BS EN 14582:2007, 以離子層析 儀分析. / With reference to BS EN	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)		14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.

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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6.# = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價鉻)
 - b. Negative means the absence of CrVI on the tested areas (Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)

7. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個别單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS参考資訊(Reference Information): 指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%.
 (May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件; 假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量 濃度等於或大於0.1%, 而紡織品或其他覆蓋物質, 如果PFOS在覆蓋物質中含量等於或大於1µg/m².

 (May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.)

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樣品型號(Style/Item No.)

(B-1) 101. 014 - . - - - - - silver plated copper wire-Cu, Ag - - %

(B-2) 101. 0131. - - - - - pure silver wire-Ag 1000

(B-3) 101.0123.0 - - - - silver plated purest nickel wire-Ni99.98%, Ag1%

(B-4) 101.0182.0 - - - - silver-copper alloy plated copper clad wire-Elcon D, AgCu5%

(B-5) 101.0120.0 - - - - silver plated constantan wire-CuNi44, Ag5%

(B-6) 101.0151.0 - - - - copper - nickel 44 alloy silver plated wire-CuNi44, Ag10%

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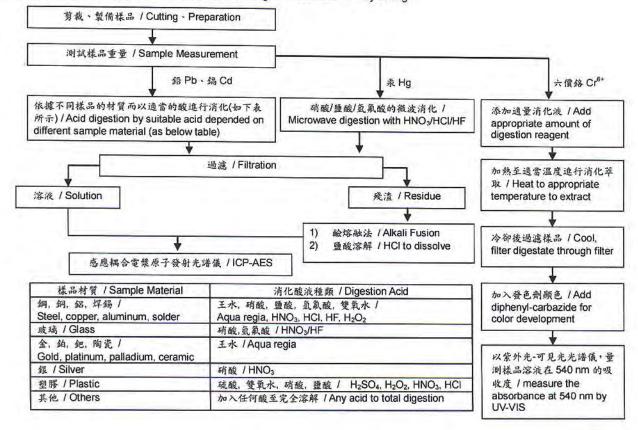
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- 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁸⁺ test method excluded)
- 2) 测试人员:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 测試負責人: 張啓典 / Name of the person in charge of measurement: Troy Chang



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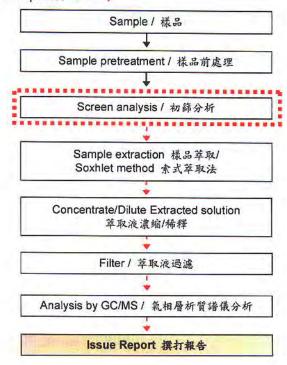
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

確認程序 / Confirmation process - - - →



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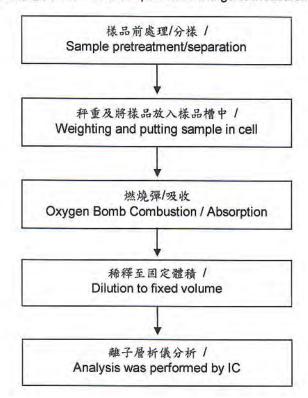
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員: 陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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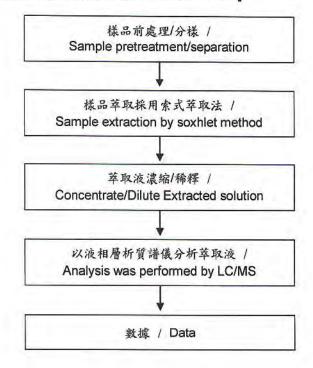
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索式萃取分析流程圖 / Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試項目:全氟辛烷磺酸/全氟辛酸(銨)、苯並三唑類化合物 / Test Items: PFOS/PFOA、Benzotriazole】



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* 照片中如有箭頭標示,則表示爲實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2012/10835



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** 報告結尾(End of Report) **

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行海路域计算数据分。Chemical Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Taiwan / 新港市工程工業 2 化溶液 5 元 86 (02)2299 3279 [+886 (02)2299 3237 www.sgs.com



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Customer: SuZhou FuHong Electronic Industrial Co., Ltd.

Address: NO. 89 WEI DU ROAD, WANGTING TOWN, XIANGCHENG DISTRICT, SUZHOU, CHINA

Report on the submitted sample said to be

Sample name: Fuses copper shell

Model: /

Item/Lot No.: / Material: / Description: /

Buyer: / Supplier: / Manufacturer: /

Sample received date: Dec.13,2011

Testing period: From Dec.13,2011 to Dec.15,2011

Testing Requested

As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample in accordance with Directive 2002/95/EC (RoHS).

Testing method:

Testing Item	Pretreatment method	Measuring instrument	MQL
Lead (Pb)	IEC 62321: 2008, section 9	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321: 2008, section 9	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321: 2008, section 7	ICP-OES	2 mg/kg
Chromium (Cr VI)	IEC 62321: 2008, Annex B	UV-VIS	0.02mg/kg*

Conclusion:

-When tested as specified the submitted sample complied with the requirements of commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC.

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)******

Approved by

Project Leader Muggie
(Engineer)

Inspected by
(Technical manager) Weikin

(Lab manager)



^{-* 0.02} mg/kg refers to the MQL of sample extraction liquid.



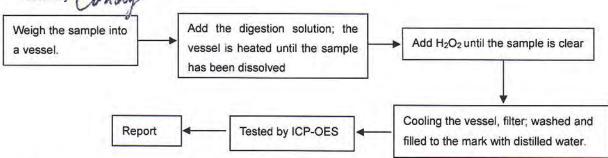
NO.: A002E11121307-2R02

Date: Dec.15, 2011

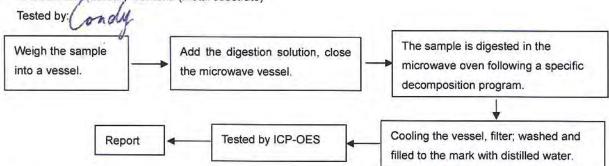
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Test Flow:

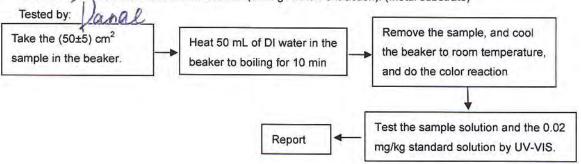
To Determine Lead, Cadmium Content: (Metal substrate)
 Tested by:



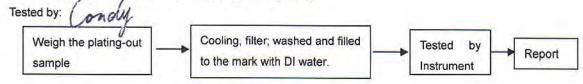
2. To Determine Mercury Content: (Metal substrate)



3. To Determine-Hexavalent Chromium Content (boiling- water- extraction): (Metal substrate)



4. To Determine Lead, Cadmium and Mercury Content: (Plating)



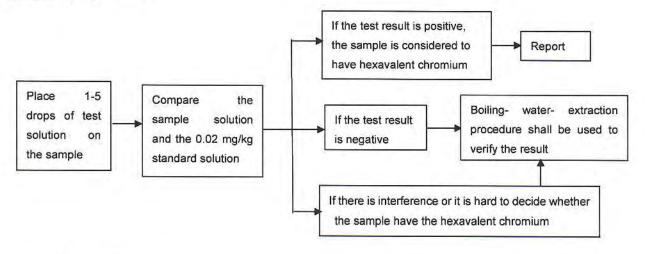


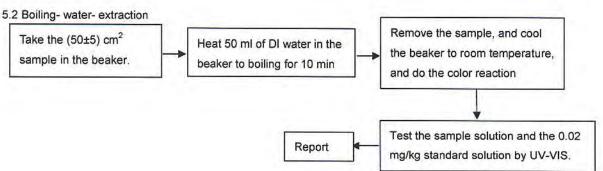


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5. To Determine Hexavalent Chromium Content in colorless and colored chromate coating on metals: (Plating)
Tested by:

5.1 Spot-test





Sample description:

Code	Sample name	Code	Sample name
2-1	Lead wire substrate	2-3	Copper shell substrate
2-2	Lead wire Plating	2-4	Copper shell Plating

Test Results:

Item	Unit	RoHS Limit	Result			
			2-1	2-2*	2-3	2-4*
Lead (Pb)	mg/kg	1000	N.D.	2.5	40.0	N.D.
Cadmium (Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.
Chromium (CrVI)	mg/kg	1000	Negative	Negative	Negative	Negative





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Note:

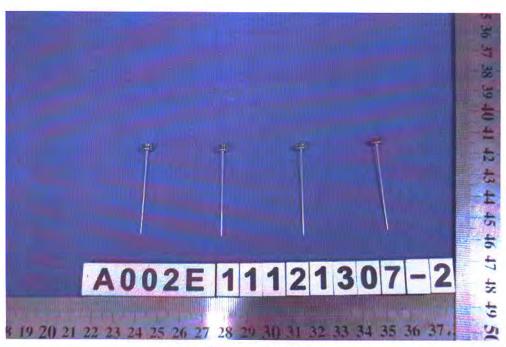
- -The new RoHS directive 2011/65/EU, on Jul. 21, 2011 come into force, on Jan. 03, 2013 the formal implementation, Directive 2002/95/EC shall be repealed simultaneously.
- -Specimens, which requested to determine Lead, Cadmium and Mercury Content, have been dissolved completely.
- -mg/kg=ppm
- -N.D.=not detected(<MQL)
- -MQL=Method Quantitation Limit
- -Negative=Absence of Cr (VI);

Positive=Presence of Cr (VI);

Uncertain= can not verify whether the sample have Hexavalent Chromium by spot-test.

- (The tested sample should be further verified by boiling-water-extraction method if the spot test result is uncertain or negative.)
- -*The test is based on the following assumption: The sample plating is a single layer and each part is uniform. The test result maybe cannot stand for the physical truth of sample plating.
- -Photo is included

Photograph of Sample



Fuses copper shell

End of Report

