



ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: In Line Fuse Holder

Product #: FHACxxx

Issue Date: May 2, 2012

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes.

In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by:


KRISTEEN BACILA

<Global EHS Engineer>

(1) Parts, sub-materials and unit parts

This document covers the Low Profile /ATO P.C. Board Clips RoHS-Compliant series products manufactured by Littelfuse, Inc.

< Raw Materials Used

Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identified 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	NA	Body	3-11
2	NA	Terminal	12-15
3	NA	Wire	16-30

測試報告
Test Report

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協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉大崗村頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN



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

樣品名稱(Sample Description) : EXXONMOBIL SANTOPRENE
樣品型號(Style/Item No.) : 251-80W232
收件日期(Sample Receiving Date) : 2011/12/13
測試期間(Testing Period) : 2011/12/13 TO 2011/12/19

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果符合 RoHS指令2002/95/EC的更新指令2011/65/EU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 / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN



測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色顆粒 (WHITE PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				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.	100
鉛 / Lead (Pb)	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	33	1000
汞 / Mercury (Hg)	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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
六溴環十二烷 / 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 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (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.	-
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	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.	-
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	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.	-

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測試報告

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)	法規 限值 (Limit)
				No.1	
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	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.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	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.	-
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	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.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析/質譜儀檢測全氟辛烷磺酸含量。 / 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	參考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.	-
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			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.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl			5	n.d.	-
十溴聯苯 / Decabromobiphenyl			5	n.d.	-

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測試報告 Test Report

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WGJ COMPANY LTD.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1	法規 限值 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/ 質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	49	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			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			5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether			5	49	-

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)

PFOS參考資訊(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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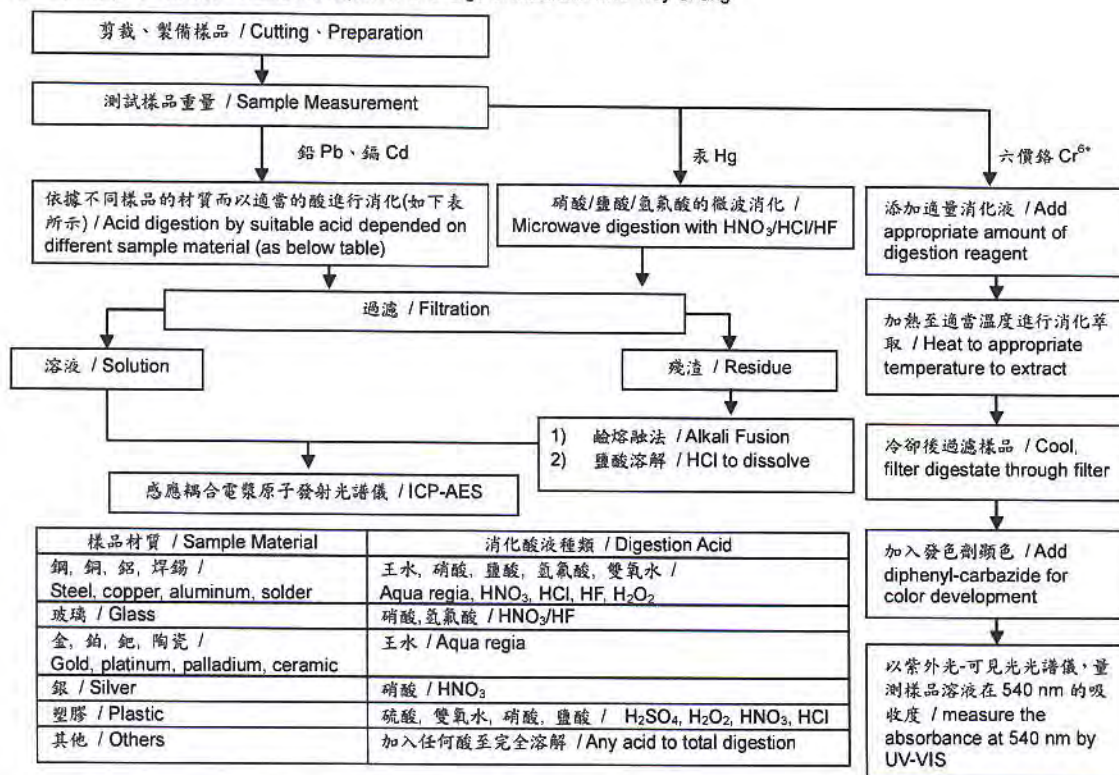
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5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN



- 1) 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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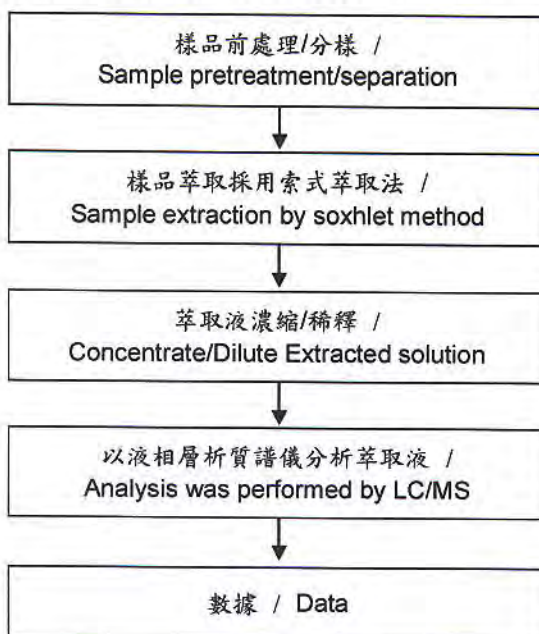
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索式萃取分析流程圖 / Analytical flow chart of Soxhlet extraction (LC/MS) procedure

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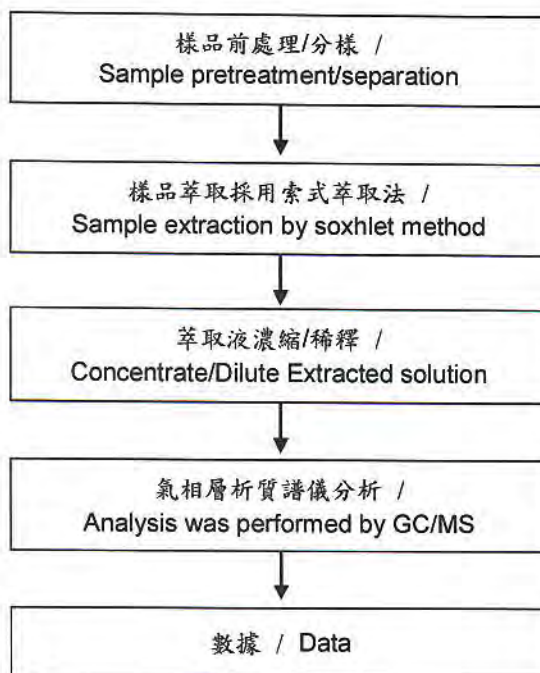
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索式萃取分析流程圖 / Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 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：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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測試報告

Test Report

號碼(No.) : CE/2011/C2356 日期(Date) : 2011/12/19 頁數(Page) : 8 of 9

協祐股份有限公司

WGJ COMPANY LTD.

桃園縣龜山鄉大崗村頂湖五街5號

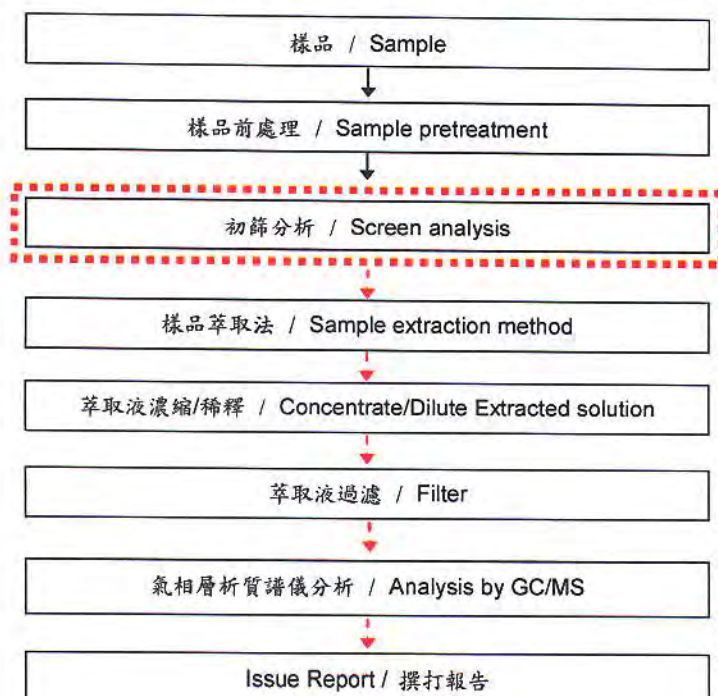
5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN



分析流程圖 / 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
- 【測試項目(Test Items): 多溴聯苯/多溴聯苯醚、四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis】

初次測試程序 / First testing process → 選擇性篩檢程序 / Optional screen process 確認程序 / Confirmation process →



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測試報告

Test Report

號碼(No.) : CE/2011/C2356 日期(Date) : 2011/12/19 頁數(Page) : 9 of 9

協祐股份有限公司

WGJ COMPANY LTD.

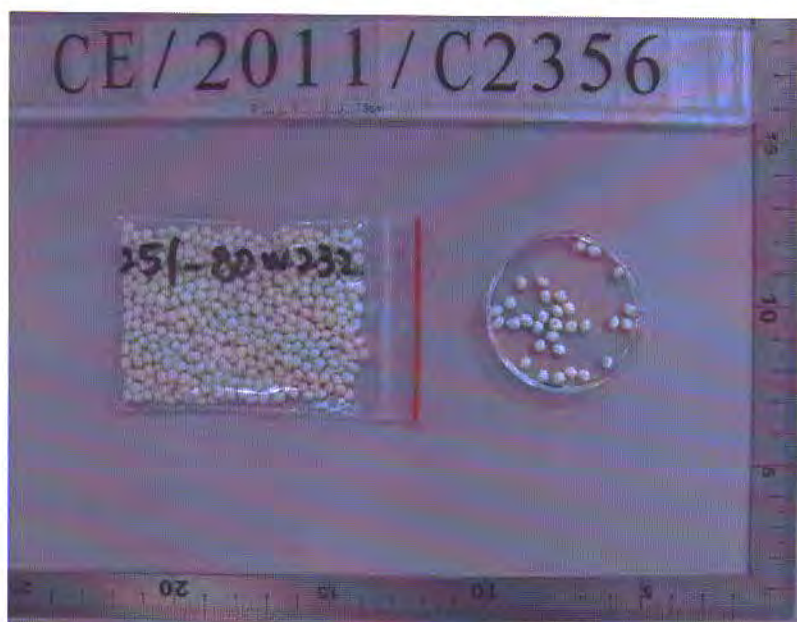
桃園縣龜山鄉大崗村頂湖五街5號

5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN



* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

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



** 報告結尾 (End of Report) **

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, New Taipei City, Taiwan / 新北市五股工業區五權路33號 +886 (02)2299 3279 f +886 (02)2299 3237 www.sgs.com

Member of the SGS Group (SGS SA)

測試報告 Test Report

號碼(No.) : CE/2011/C5213

日期(Date) : 2012/01/04

頁數(Page): 1 of 4

第一伸銅科技股份有限公司

FIRST COPPER TECHNOLOGY CO., LTD.

高雄市前金區中正四路170號

NO. 170, CHUNG CHENG 4TH ROAD, KAOHSIUNG, TAIWAN, R. O. C.



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

樣品名稱(Sample Description) : LEADFRAME (引線架銅)

樣品型號(Style/Item No.) : C194

收件日期(Sample Receiving Date) : 2011/12/28

測試期間(Testing Period) : 2011/12/28 TO 2012/01/04

測試需求(Test Requested) : 參照RoHS 2011/65/EU Annex II 指令要求. (In accordance with the RoHS Directive 2011/65/EU Annex II).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



Nicole Chien / Supervisor
Signed for and on Behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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第一伸銅科技股份有限公司

FIRST COPPER TECHNOLOGY CO., LTD.

高雄市前金區中正四路170號

NO. 170, CHUNG CHENG 4TH ROAD, KAOHSIUNG, TAIWAN, R. O. C.



測試結果(Test Results)

測試部位(PART NAME)No.1 : 銅色金屬片 (COPPER COLORED METAL SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (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		2	n.d.
汞 / Mercury (Hg)	mg/kg		2	n.d.
六價鉻 / 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

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. ** = Qualitative analysis (No Unit) 定性分析(無單位)
5. # =
 - 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 \geq 0.02 mg/kg with 50 cm² (tested areas)

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測試報告

Test Report

號碼(No.): CE/2011/C5213

日期(Date): 2012/01/04

頁數(Page): 3 of 4

第一伸銅科技股份有限公司

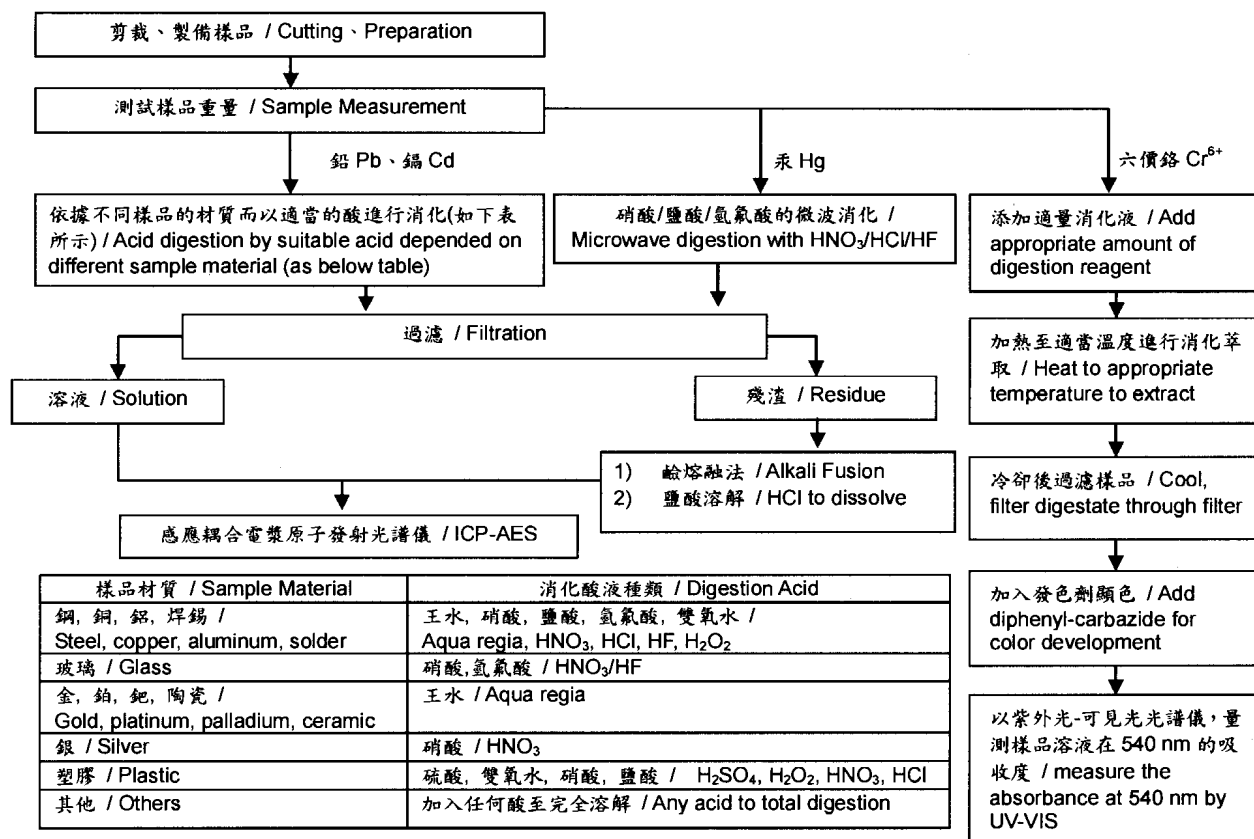
FIRST COPPER TECHNOLOGY CO., LTD.

高雄市前金區中正四路170號

NO. 170, CHUNG CHENG 4TH ROAD, KAOHSIUNG, TAIWAN, R. O. C.



- 1) 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

號碼(No.) : CE/2011/C5213

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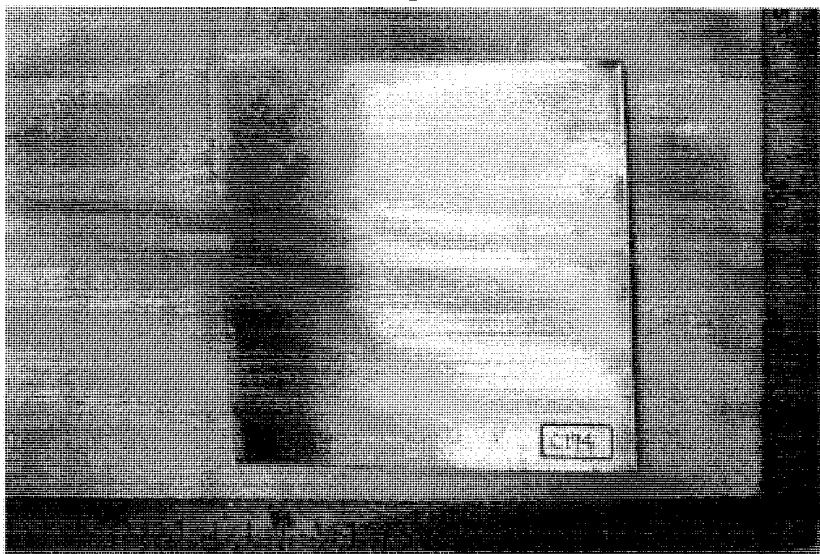
高雄市前金區中正四路170號

NO. 170, CHUNG CHENG 4TH ROAD, KAOHSIUNG, TAIWAN, R. O. C.



* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

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

CE/2011/C5213

** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 1 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



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

樣品名稱(Sample Description) : HOOK UP WIRE, AUTOMOBILE WIRE, AC ELECTRIC WIRE, SPEAKER WIRE, RAINBOW FLAT CABLE

樣品型號(Style/Item No.) : 請參考第10頁 (PLEASE REFER TO PAGE 10)

收件日期(Sample Receiving Date) : 2012/03/02

測試期間(Testing Period) : 2012/03/02 TO 2012/03/08

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


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

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測試報告

Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 2 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



測試結果(Test Results)

測試部位(PART NAME)No.1	:	白色塑膠外被及其上灰色印刷 (WHITE PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.2	:	棕色塑膠外被及其上白色印刷 (BROWN PLASTIC JACKET WITH WHITE PRINTED)
測試部位(PART NAME)No.3	:	紅色塑膠外被及其上灰色印刷 (RED PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.4	:	橘色塑膠外被及其上灰色印刷 (ORANGE PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.5	:	黃色塑膠外被及其上灰色印刷 (YELLOW PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.6	:	粉紅色塑膠外被及其上灰色印刷 (PINK PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.7	:	紫色塑膠外被及其上白色印刷 (PURPLE PLASTIC JACKET WITH WHITE PRINTED)
測試部位(PART NAME)No.8	:	灰色塑膠外被及其上灰色印刷 (GRAY PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.9	:	綠色塑膠外被及其上灰色印刷 (GREEN PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.10	:	黑色塑膠外被及其上白色印刷 (BLACK PLASTIC JACKET WITH WHITE PRINTED)
測試部位(PART NAME)No.11	:	藍色塑膠外被及其上灰色印刷 (BLUE PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.12	:	銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.1	No.2	No.3
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.	n.d.	n.d.
鉛 / Lead (Pb)	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.	n.d.	n.d.

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 3 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.1	No.2	No.3
汞 / Mercury (Hg)	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.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.	n.d.

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測試報告

Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 4 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.4	No.5	No.6
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.	n.d.	n.d.
鉛 / Lead (Pb)	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.	n.d.	n.d.
汞 / Mercury (Hg)	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.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測。 / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 5 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				No.4	No.5	No.6
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.	n.d.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				No.7	No.8	No.9
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.	n.d.	n.d.
鉛 / Lead (Pb)	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.	n.d.	n.d.
汞 / Mercury (Hg)	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.	n.d.	n.d.

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 6 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				No.7	No.8	No.9
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.	n.d.

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 7 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				No.10	No.11	No.12
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.	n.d.	n.d.
鉛 / Lead (Pb)	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.	n.d.	n.d.
汞 / Mercury (Hg)	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.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	---
	**	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

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 8 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				No.10	No.11	No.12
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以 氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.	---
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	---
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	---
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	---
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	---
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	---
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	---
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	---
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	---
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	---
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	---
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.	n.d.	---
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	---
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	---
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	---
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	---
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	---
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	---
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	---
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	---
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	---
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.	---

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 9 of 15

三甲電線電纜股份有限公司

3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



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. "---" = Not Conducted (未測項目)
6. ** = Qualitative analysis (No Unit) 定性分析(無單位)
7. # =
 - 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 \geq 0.02 mg/kg with 50 cm² (tested areas)

8. 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別單一材質的含量。(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.)

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測試報告 Test Report

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三甲電線電纜股份有限公司

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桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



樣品型號(Style/Item No.) :

1007(LF)	1011(LF)	1013(LF)	1015(LF)	1017(LF)	1024(LF)	1026(LF)	1027(LF)	1028(LF)
1037(LF)	1056(LF)	1061(LF)	1095(LF)	1185(LF)	1195(LF)	1208(LF)	1230(LF)	1275(LF)
1283(LF)	1284(LF)	1316(LF)	1317(LF)	1346(LF)	1354(LF)	1365(LF)	1429(LF)	1430(LF)
1431(LF)	1472(LF)	1479(LF)	1497(LF)	1500(LF)	1503(LF)	1533(LF)	1569(LF)	1570(LF)
1571(LF)	1581(LF)	1605(LF)	1650(LF)	1674(LF)	1692(LF)	1777(LF)	1789(LF)	1792(LF)
1803(LF)	1950(LF)	1953(LF)	10027(LF)	10038(LF)	10097(LF)	10235(LF)	10236(LF)	10272(LF)
10482(LF)	10599(LF)	10958(LF)	10965(LF)	11109(LF)	2095(LF)	2464(LF)	2468(LF)	2547(LF)
2725(LF)	2785(LF)	2789(LF)	2835(LF)	2851(LF)	2854(LF)	2919(LF)	2960(LF)	2990(LF)
20018(LF)	3443(LF)	3475(LF)	3610(LF)	SPT-1(LF)	SPT-2(LF)	SPT-3(LF)		
AV(LF)	AVS(LF)	AVSS(LF)	AVX(LF)	AVXS(LF)	AVSSX(LF)	AVSSH(LF)	AESSX(LF)	AEX(LF)
CAVS(LF)	CAVUS(LF)	CHFUS(LF)	HAV(LF)					
TWE(LF)	TWP(LF)	GPT(LF)	STT(LF)	SGT(LF)	HDT(LF)	THE(LF)	STE(LF)	GTE(LF)
TXL(LF)	GXL(LF)	SXL(LF)	SGX(LF)	STX(LF)				
FLY(LF)	FLYM(LF)	FLYK(LF)	TLYY(LF)	FLRBY(LF)	FLRYB11Y(LF)	FLRY-A/B(LF)	FLR2X-A/B(LF)	FLR4Y(LF)
FLR2X-A/B(LF)	EB(LF)	HEB(LF)	HEBX(LF)	ABAEX(LF)	AYB(LF)			

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測試報告 Test Report

號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 11 of 15

三甲電線電纜股份有限公司

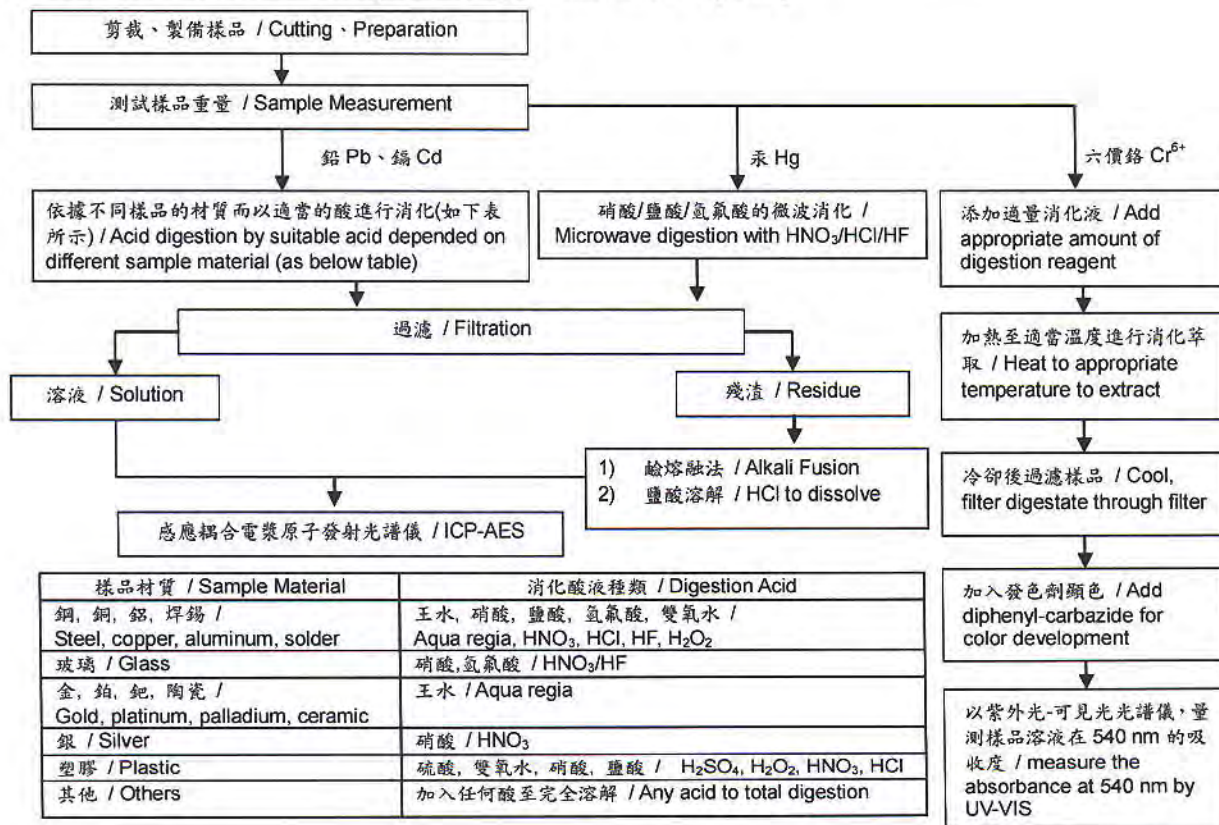
3A PVC WIRE & CABLE CO., LTD.

桃園縣八德市和成路31巷3號

NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



- 1) 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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三甲電線電纜股份有限公司

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桃園縣八德市和成路31巷3號

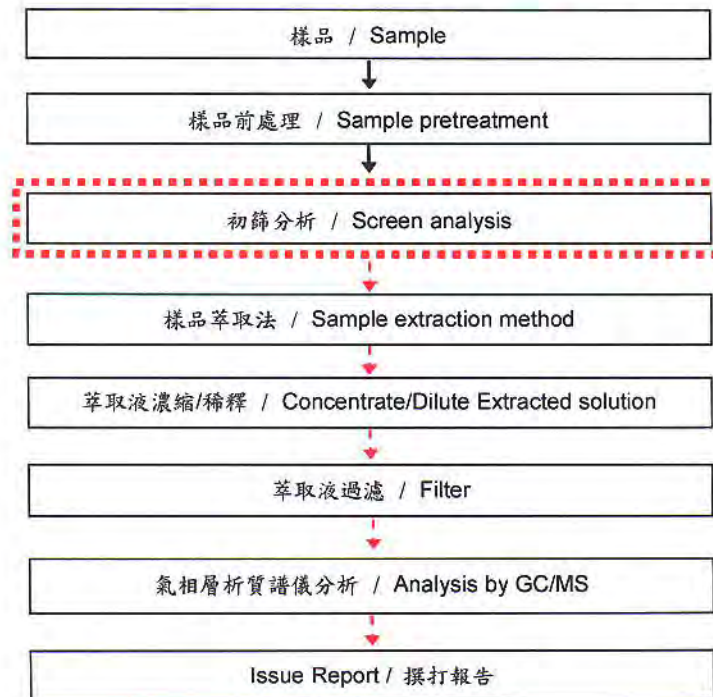
NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.



分析流程圖 / 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
- 【測試項目(Test Items): 多溴聯苯/多溴聯苯醚、四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis】

初次測試程序 / First testing process → 選擇性篩檢程序 / Optional screen process 確認程序 / Confirmation process - - - - -



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3A PVC WIRE & CABLE CO., LTD.

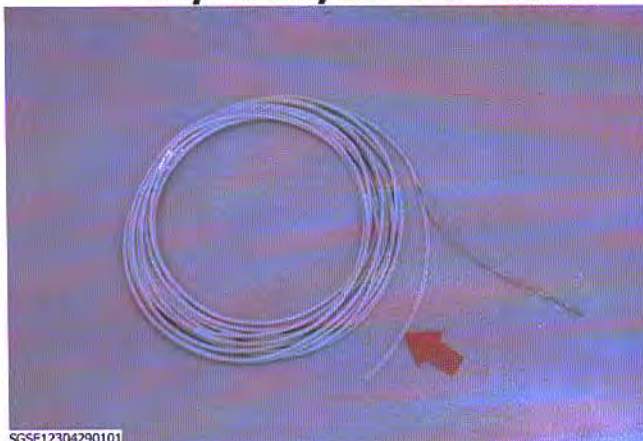
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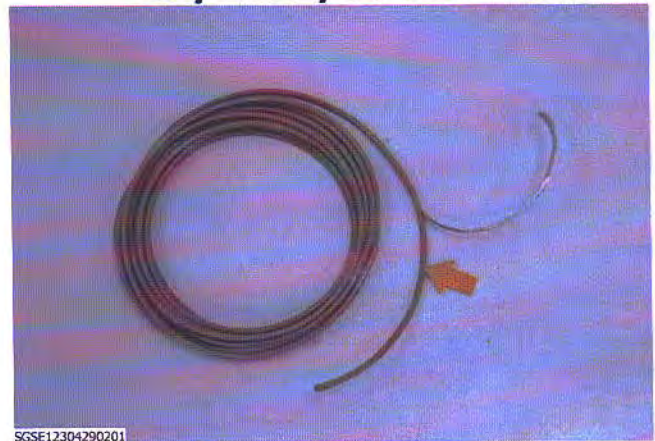
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2012/30429 NO.1



SGSE12304290101

CE/2012/30429 NO.2



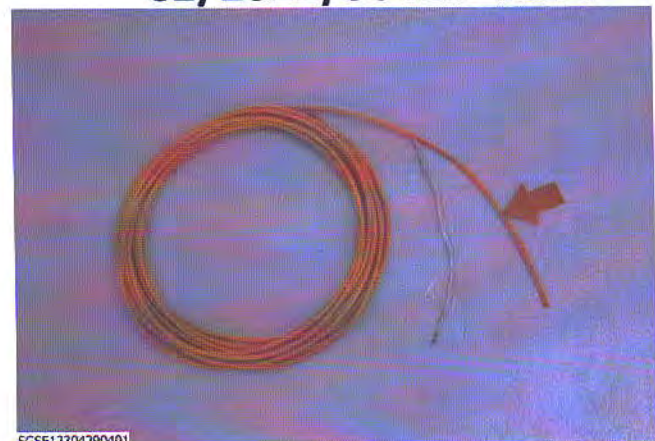
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CE/2012/30429 NO.3



SGSE12304290301

CE/2012/30429 NO.4



SGSE12304290401

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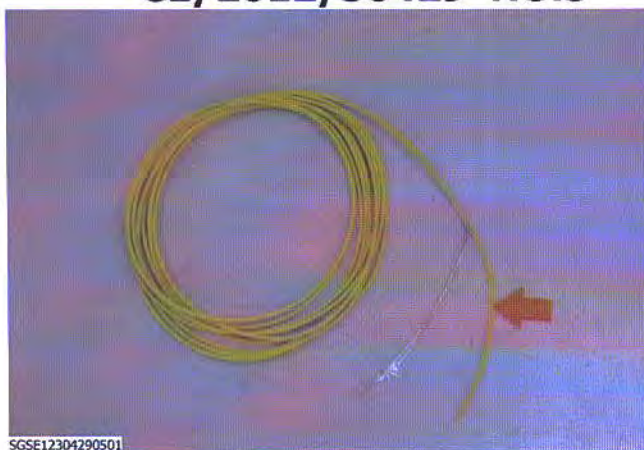
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CE/2012/30429 NO.5



SGSE12304290501

CE/2012/30429 NO.6



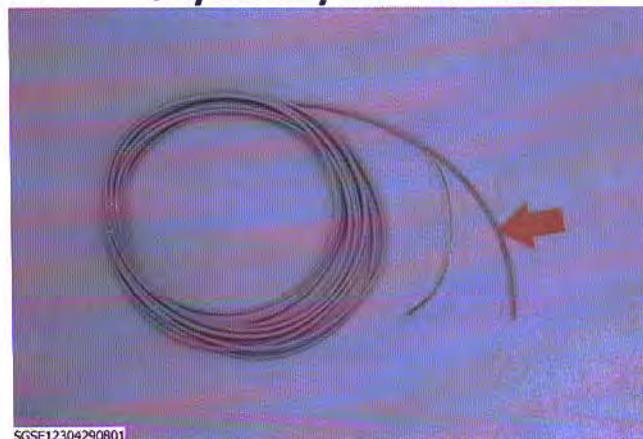
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CE/2012/30429 NO.7



SGSE12304290701

CE/2012/30429 NO.8



SGSE12304290801

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號碼(No.) : CE/2012/30429 日期(Date) : 2012/03/08 頁數(Page) : 15 of 15

三甲電線電纜股份有限公司

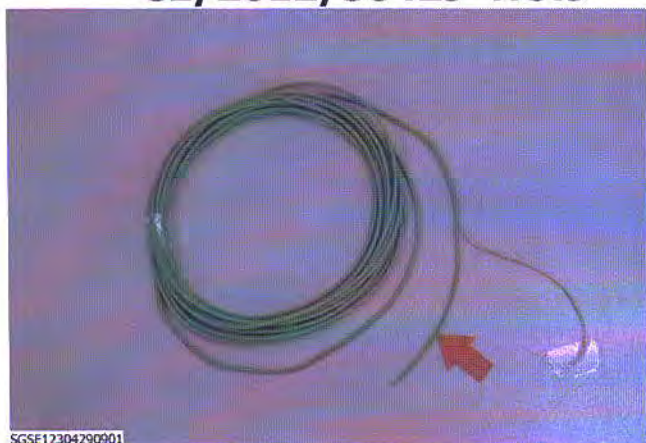
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NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.

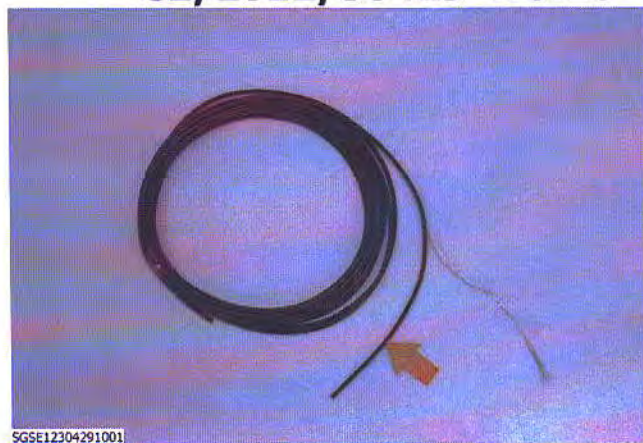


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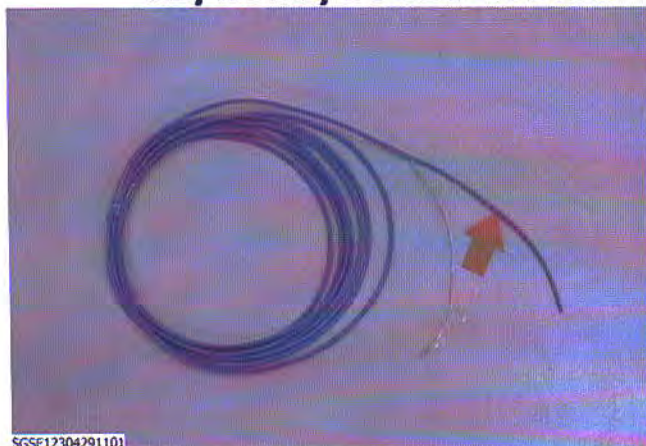
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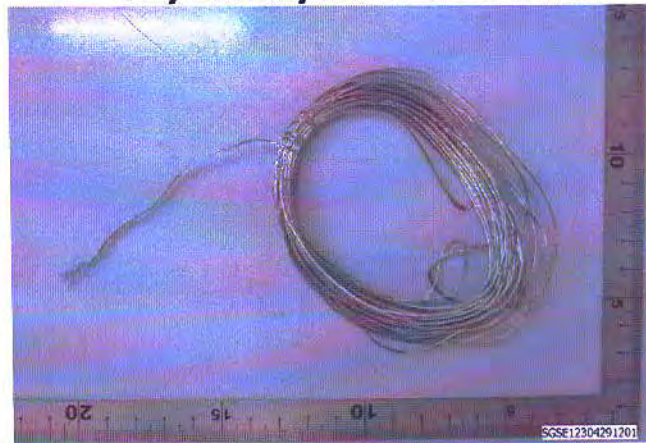
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CE/2012/30429 NO.11



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CE/2012/30429 NO.12



SGSE12304291201

**** 報告結尾 (End of Report) ****

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