ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

Product Series: In Line Holder – 150322 series

Product #: 015003xxH

Issue Date: October 22, 2013

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC, 2011/65/EU)-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: JENNY DINGLASAN

<Global EHS Specialist >

(1) Parts, sub-materials and unit parts

This document covers the Fuse clip 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 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	N/A	Wire	3-36
2	N/A	Housing	37-46
3	N/A	Terminal	47-56

Signature valid
For Question
Please Contact with SGS
www.tw.sgs.com

測試報告
Test Report

號碼(No.) : CE/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 1 of 20

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.

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By)	:	三甲電線電纜股份有限公司 (3A PVC WIRE & CABLE CO., LTD.)
樣品名稱(Sample Description)	:	HOOK UP WIRE , AUTOMOBILE WIRE , IRRADIATED WIRE , SPEAKER WIRE , RAINBOW FLAT CABLE
樣品型號(Style/Item No.)	:	請參考第13頁 (PLEASE REFER TO PAGE 13)
收件日期(Sample Receiving Date)	:	2013/08/27
測試期間(Testing Period)	:	2013/08/27 TO 2013/09/03

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測試需求(Test Requested) : 依據客户指定，進行鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚測試. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

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

SGS TAIWAN LTD
SGS
TAIWAN

Troy Chang / Manager-Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告
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號碼(No.) : CE/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 2 of 20

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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 : 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.3 : 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.4 : 深綠色/黃色塑膠外被及其上黑色印刷 (DK. GREEN/YELLOW PLASTIC JACKET WITH BLACK PRINTED)
測試部位(PART NAME)No.5 : 灰色塑膠外被及其上黑色印刷 (GRAY PLASTIC JACKET WITH BLACK PRINTED)
測試部位(PART NAME)No.6 : 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.7 : 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.8 : 淡藍色塑膠外被及其上灰色印刷 (LT. BLUE PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.9 : 棕色塑膠外被及其上灰色印刷 (BROWN PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.10 : 紫色塑膠外被及其上灰色印刷 (PURPLE PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.11 : 紅色塑膠外被及其上黑色印刷 (RED PLASTIC JACKET WITH BLACK PRINTED)
測試部位(PART NAME)No.12 : 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.13 : 藍色塑膠外被及其上白色印刷 (BLUE PLASTIC JACKET WITH WHITE PRINTED)
測試部位(PART NAME)No.14 : 混測銅色及銀色金屬線 (含鍍層) (MIXED COPPER AND SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))
測試部位(PART NAME)No.15 : 淡紫色塑膠外被及其上灰色印刷 (LT. PURPLE PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.16 : 淡綠色/黃色塑膠外被及其上灰色印刷 (LT. GREEN/YELLOW PLASTIC JACKET WITH GRAY PRINTED)
測試部位(PART NAME)No.17 : 深綠色塑膠外被及其上灰色印刷 (DK. GREEN PLASTIC JACKET WITH GRAY PRINTED)

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 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.

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測試報告
Test Report

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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	No.2	No.3
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 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/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	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.

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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	No.2	No.3
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/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	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		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.4	No.5	No.6
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.

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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.4	No.5	No.6
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 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/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	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.

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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
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 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/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	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.

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測試報告
Test Report

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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.7	No.8	No.9
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/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	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		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.10	No.11	No.12
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 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/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 8 of 20

三甲電線電纜股份有限公司
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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.10	No.11	No.12
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 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/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	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.

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測試報告
Test Report

號碼(No.) : CE/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 9 of 20

三甲電線電纜股份有限公司
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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.13	No.14	No.15
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	10	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 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/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 10 of 20

三甲電線電纜股份有限公司
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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.13	No.14	No.15
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法, 以氣相層析/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	mg/kg		5	n.d.	---	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	---	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	---	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	---	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	---	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	---	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	---	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	---	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	---	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	---	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	---	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	---	n.d.

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測試報告
Test Report

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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.16	No.17
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	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.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/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	mg/kg		5	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.

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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.16	No.17
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	n.d.

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 cm^2 tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm^2 (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

號碼(No.) : CE/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 13 of 20

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樣品型號(Style/Item No.):

20541(LF.HF)	20851(LF.HF)	20868(LF.HF)	21064(LF.HF)	21080(LF.HF)	21087(LF.HF)	21089(LF.HF)	21101(LF.HF)	21115(LF.HF)
21117(LF.HF)	21118(LF.HF)	21119(LF.HF)	21120(LF.HF)	21143(LF.HF)	21145(LF.HF)	21217(LF.HF)	21254(LF.HF)	21255(LF.HF)
21265(LF.HF)	21266(LF.HF)	21269(LF.HF)	21272(LF.HF)	21279(LF.HF)	21280(LF.HF)	21281(LF.HF)	21282(LF.HF)	21283(LF.HF)
21284(LF.HF)	21285(LF.HF)	21286(LF.HF)	21287(LF.HF)	21288(LF.HF)	21303(LF.HF)	21304(LF.HF)	21305(LF.HF)	21306(LF.HF)
21307(LF.HF)	21308(LF.HF)	21309(LF.HF)	21310(LF.HF)	21339(LF.HF)	21350(LF.HF)	21352(LF.HF)	21425(LF.HF)	21550(LF.HF)
21551(LF.HF)								
10981(LF.HF)	11028(LF.HF)	11029(LF.HF)	10602(LF.HF)	11027(LF.HF)	10983(LF.HF)	10800(LF.HF)	21311(LF.HF)	10986(LF.HF)
20674(LF.HF)	11045(LF.HF)	21510(LF.HF)	11047(LF.HF)	21508(LF.HF)	11025(LF.HF)	10937(LF.HF)	10938(LF.HF)	10533(LF.HF)

3173(LF.HF)	3265(LF.HF)	3266(LF.HF)	3271(LF.HF)	3272(LF.HF)	3286(LF.HF)	3287(LF.HF)	3288(LF.HF)	3289(LF.HF)
3290(LF.HF)	3297(LF.HF)	3302(.HF)	3312(LF.HF)	3317(LF.HF)	3321(LF.HF)	3331(LF.HF)	3346(LF.HF)	3347(LF.HF)
3348(LF.HF)	3351(LF.HF)	3352(LF.HF)	3385(HF)	3386(HF)	3398(LF.HF)	3401(LF.HF)	3417(LF.HF)	3433(LF.HF)
3443(LF.HF)	3463(LF.HF)	3464(LF.HF)	3475(LF.HF)	3482(LF.HF)	3610(LF.HF)	1354(LF.HF)	1365(LF.HF)	1789(LF.HF)
1792(LF.HF)	10368(LF.HF)	10369(LF.HF)	4478(LF.HF)	FR9Y(HF)				

HOOK UP WIRE , AUTOMOBILE WIRE , IRRADIATED WIRE , SPEAKER WIRE , RAINBOW FLAT CABLE

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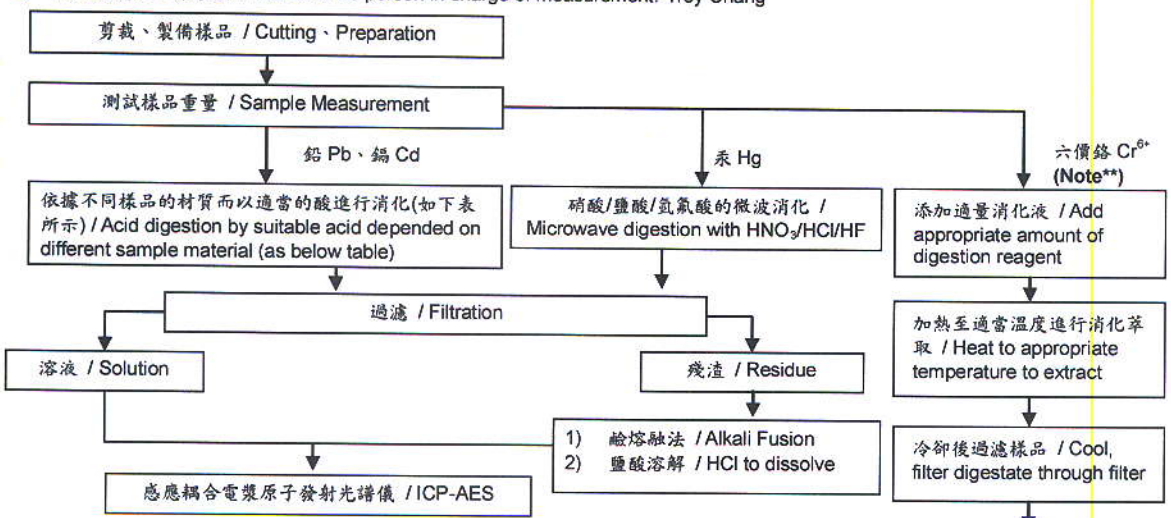
測試報告
Test Report

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. (Cr^{6+} 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



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note** : (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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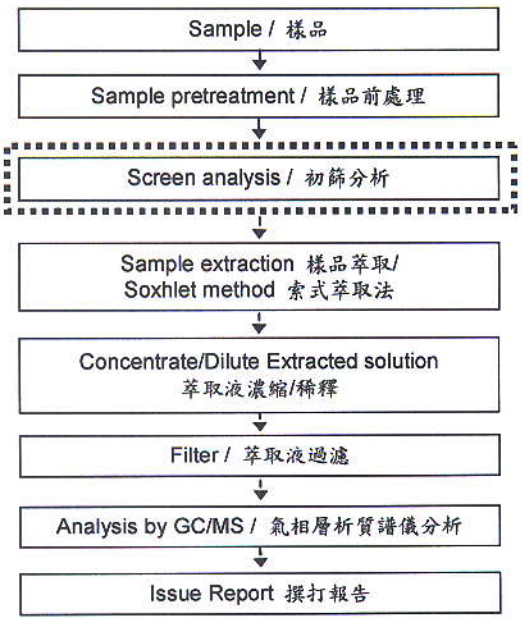
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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

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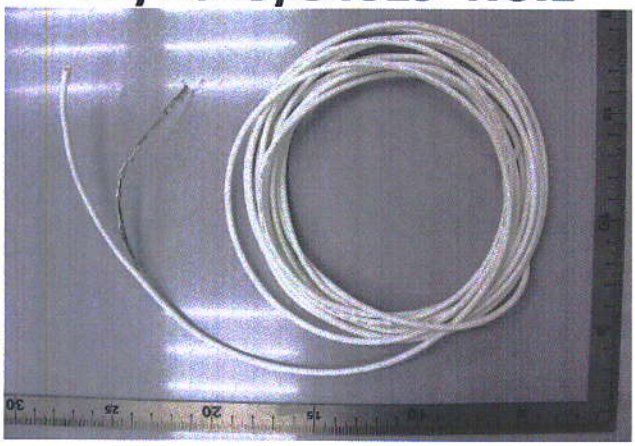
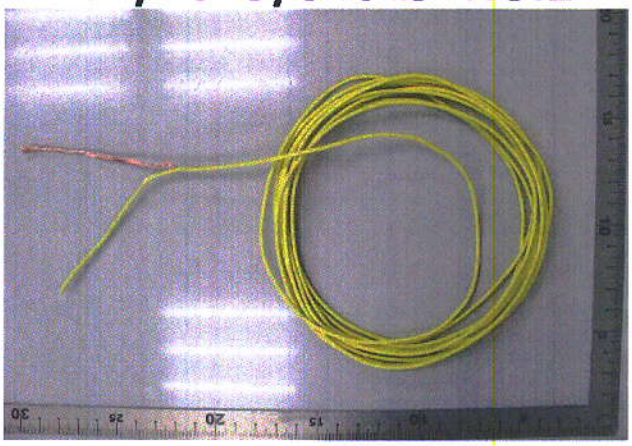
* 照片中如有箭頭標示，則表示爲實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2013/84019 NO.1



CE/2013/84019 NO.2



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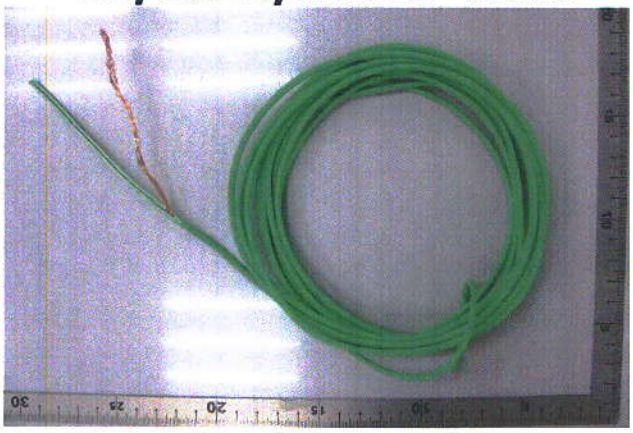

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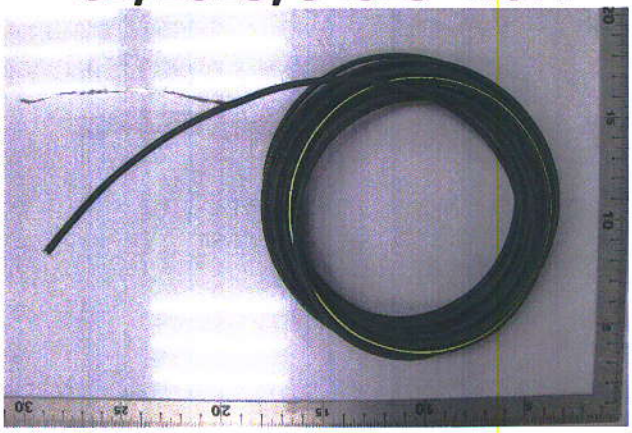

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測試報告
Test Report

號碼(No.) : CE/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 17 of 20

三甲電線電纜股份有限公司
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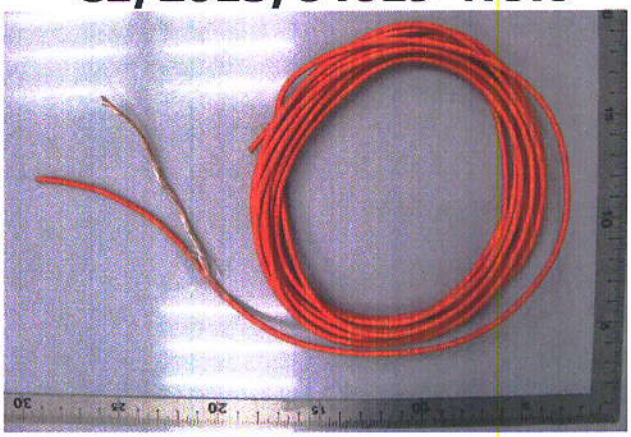
桃園縣八德市和成路31巷3號
NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.

CE/2013/84019 NO.5

CE/2013/84019 NO.6



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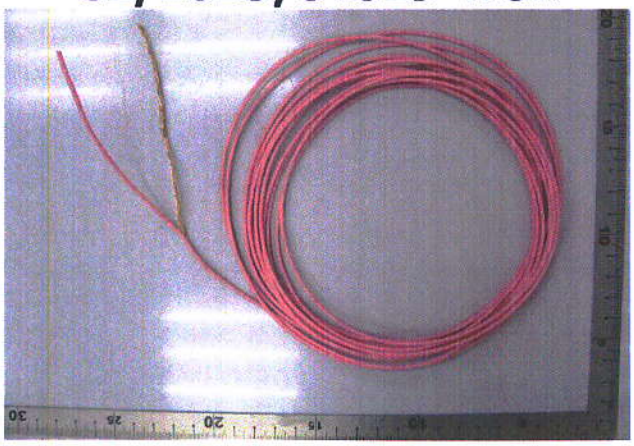

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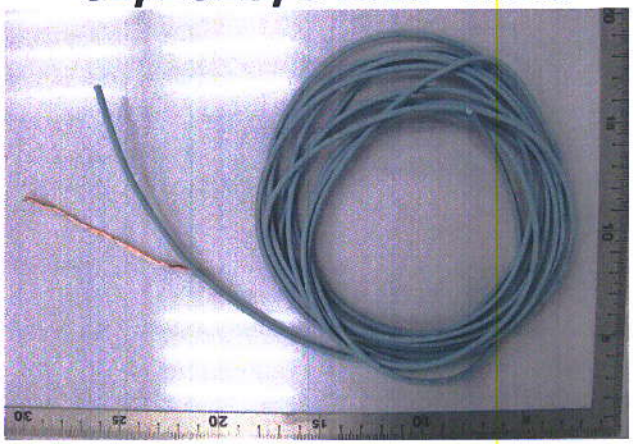

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測試報告
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號碼(No.) : CE/2013/84019 日期(Date) : 2013/09/03 頁數(Page) : 18 of 20

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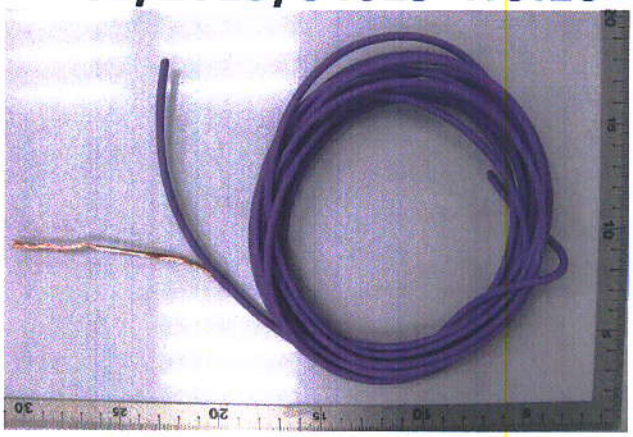
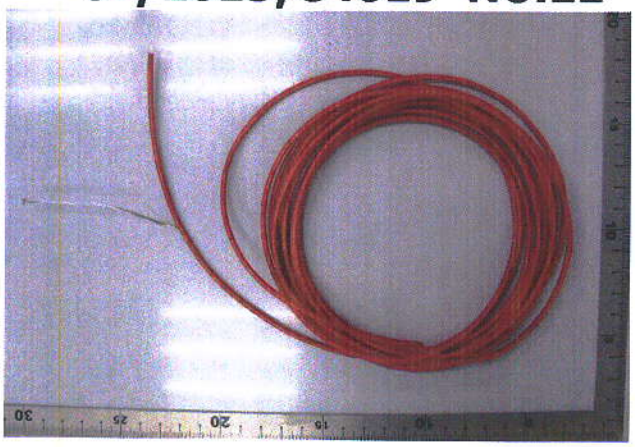
CE/2013/84019 NO.9

CE/2013/84019 NO.10



CE/2013/84019 NO.11



CE/2013/84019 NO.12

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測試報告
Test Report

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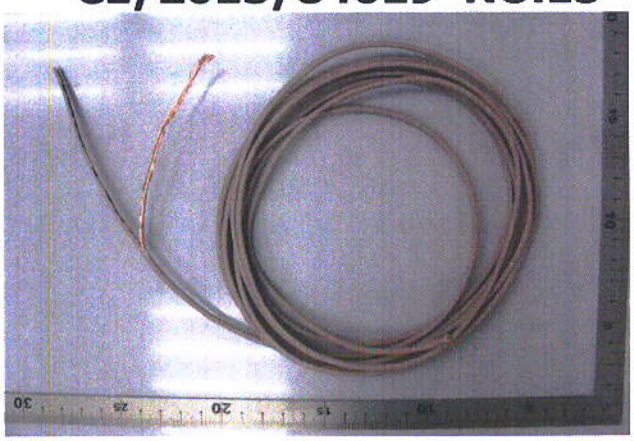
CE/2013/84019 NO.13

CE/2013/84019 NO.14

CE/2013/84019 NO.15



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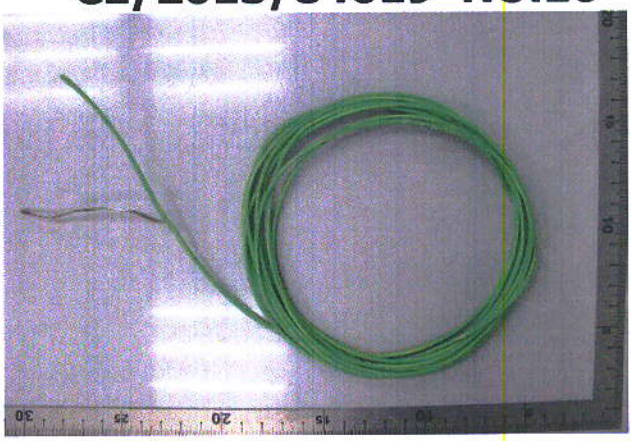

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CE/2013/84019 NO.17

** 報告結尾 (End of Report) **

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Signature valid
For Question,
Please Contact with SGS
www.tw.sgs.com

測試報告
Test Report

號碼(No.) : CE/2013/23540　　日期(Date) : 2013/03/04　　頁數(Page): 1 of 4

大陸國際工業股份有限公司
DA LOH INTERNATIONAL INDUSTRIAL CO., LTD.
新北市樹林區佳園路二段15巷10號
NO. 10, LANE 15, SEC. 2, JIAYUAN RD., SHU-LIN DIST., NEW TAIPEI CITY, TAIWAN, R. O. 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 identified by/on behalf of the client as) :

樣品名稱(Sample Description)	:	鍍錫絞線
樣品型號(Style/Item No.)	:	T0.08~0.51/7~100
收件日期(Sample Receiving Date)	:	2013/02/23
測試期間(Testing Period)	:	2013/02/23 TO 2013/03/04

==========

測試需求(Test Requested) : 依據客户指定，進行鎘，鉛，汞，六價鉻測試. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method) : 參考IEC 62321: 2008方法 / With reference to IEC 62321: 2008.

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

SGS TAIWAN LTD SGS TAIWAN

Nicole Chien / Supervisor
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/2013/23540　　日期(Date) : 2013/03/04　　頁數(Page): 2 of 4

大陸國際工業股份有限公司
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新北市樹林區佳園路二段15巷10號
NO. 10, LANE 15, SEC. 2, JIAYUAN RD., SHU-LIN DIST., NEW TAIPEI CITY, TAIWAN, R. O. C.

測試結果(Test Results)

測試部位(PART NAME)No.1 : 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
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 cm^2 tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm^2 (tested areas)
6. 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

號碼(No.) : CE/2013/23540　　日期(Date) : 2013/03/04　　頁數(Page): 3 of 4

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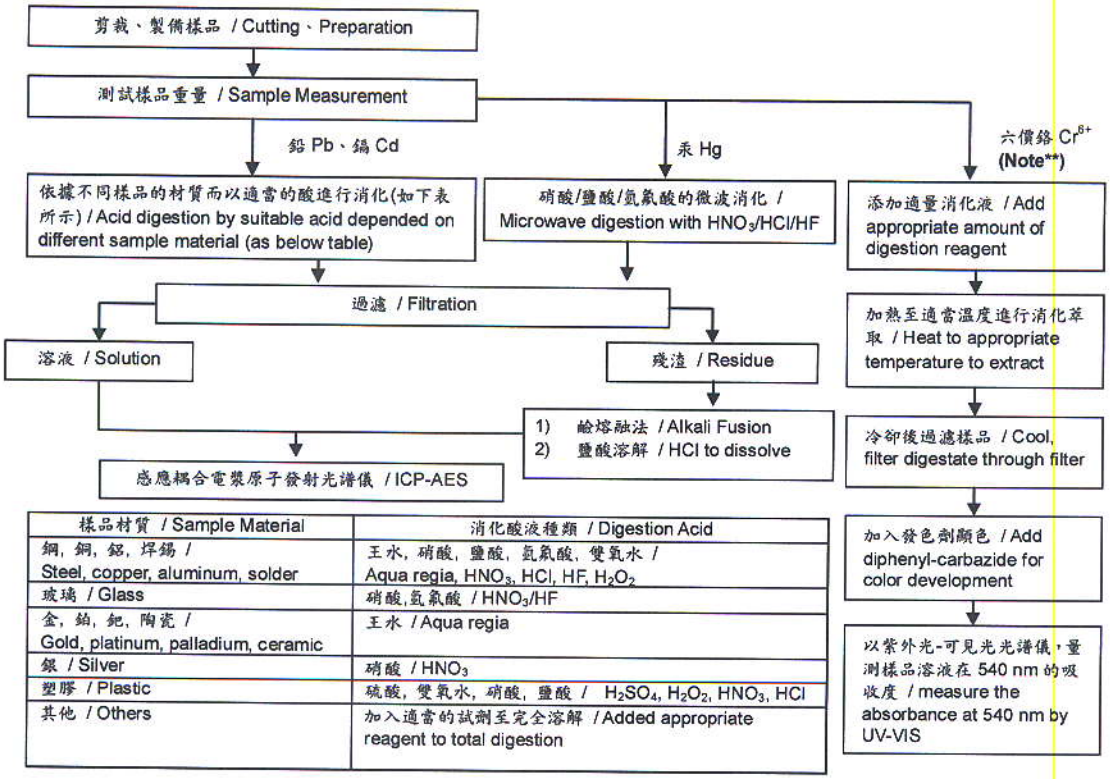
新北市樹林區佳園路二段15巷10號
NO. 10, LANE 15, SEC. 2, JIAYUAN RD., SHU-LIN DIST., NEW TAIPEI CITY, TAIWAN, R. O. C.

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. (Cr^{6+} 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



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
鋼，銅，鋁，焊錫 / Steel, copper, aluminum, solder	王水，硝酸，鹽酸，氫氟酸，雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金，鉑，鈀，陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸，雙氧水，硝酸，鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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測試報告
Test Report

號碼(No.) : CE/2013/23540　　日期(Date) : 2013/03/04　　頁數(Page): 4 of 4

大陸國際工業股份有限公司
DA LOH INTERNATIONAL INDUSTRIAL CO., LTD.
新北市樹林區佳園路二段15巷10號
NO. 10, LANE 15, SEC. 2, JIAYUAN RD., SHU-LIN DIST., NEW TAIPEI CITY, TAIWAN, R. O. C.

* 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/2013/23540

** 報告結尾 (End of Report) **

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Signature valid
For Question
Please Contact with SGS
www.tw.sgs.com

測試報告
Test Report

號碼(No.) : CE/2013/24822 日期(Date) : 2013/03/07 頁數(Page) : 1 of 10

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)	:	HOOK UP WIRE ,AUTOMOBILE WIRE ,AC ELECTRIC WIRE ,SPEAKER WIRE , RAINBOW FLAT CABLE
樣品型號(Style/Item No.)	:	請參考第5頁 (PLEASE REFER TO PAGE 5)
收件日期(Sample Receiving Date)	:	2013/02/27
測試期間(Testing Period)	:	2013/02/27 TO 2013/03/07

==========

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

SGS TAIWAN LTD

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

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 : 黃色塑膠外被 (YELLOW PLASTIC JACKET)
測試部位(PART NAME)No.2 : 藍色塑膠外被 (BLUE PLASTIC JACKET)
測試部位(PART NAME)No.3 : 黑色塑膠外被 (BLACK PLASTIC JACKET)
測試部位(PART NAME)No.4 : 綠色塑膠外被 (GREEN PLASTIC JACKET)
測試部位(PART NAME)No.5 : 白色塑膠外被 (WHITE PLASTIC JACKET)
測試部位(PART NAME)No.6 : 淺藍色塑膠外被 (LT. BLUE PLASTIC JACKET)
測試部位(PART NAME)No.7 : 棕色塑膠外被 (BROWN PLASTIC JACKET)
測試部位(PART NAME)No.8 : 紫色塑膠外被 (PURPLE PLASTIC JACKET)
測試部位(PART NAME)No.9 : 紅色塑膠外被 (RED PLASTIC JACKET)
測試部位(PART NAME)No.10 : 橘色塑膠外被 (ORANGE PLASTIC JACKET)
測試部位(PART NAME)No.11 : 粉紅色塑膠外被 (PINK PLASTIC JACKET)
測試部位(PART NAME)No.12 : 灰色塑膠外被 (GRAY PLASTIC JACKET)
測試部位(PART NAME)No.13 : 深綠色/黃色塑膠外被 (DK. GREEN/GREEN PLASTIC JACKET)

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
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	n.d.	n.d.	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.	n.d.	376
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	n.d.	n.d.

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測試報告
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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
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	370	n.d.	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	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
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	128	124	171
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	n.d.	n.d.

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測試報告
Test Report

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
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	n.d.	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	484	n.d.	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.	n.d.	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	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.13
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	563
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)			50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.

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)

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測試報告
Test Report

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.

樣品型號 (Style/Item No.) :

20541(LF.HF)	20851(LF.HF)	20868(LF.HF)	21064(LF.HF)	21080(LF.HF)	21087(LF.HF)	21089(LF.HF)	21101(LF.HF)	21115(LF.HF)
21117(LF.HF)	21118(LF.HF)	21119(LF.HF)	21120(LF.HF)	21143(LF.HF)	21145(LF.HF)	21217(LF.HF)	21254(LF.HF)	21255(LF.HF)
21265(LF.HF)	21266(LF.HF)	21269(LF.HF)	21272(LF.HF)	21279(LF.HF)	21280(LF.HF)	21281(LF.HF)	21282(LF.HF)	21283(LF.HF)
21284(LF.HF)	21285(LF.HF)	21286(LF.HF)	21287(LF.HF)	21288(LF.HF)	21303(LF.HF)	21304(LF.HF)	21305(LF.HF)	21306(LF.HF)
21307(LF.HF)	21308(LF.HF)	21309(LF.HF)	21310(LF.HF)	21339(LF.HF)	21350(LF.HF)	21352(LF.HF)	21425(LF.HF)	21550(LF.HF)
21551(LF.HF)								
10981(LF.HF)	11028(LF.HF)	11029(LF.HF)	10602(LF.HF)	11027(LF.HF)	10983(LF.HF)	10800(LF.HF)	21311(LF.HF)	10986(LF.HF)
20674(LF.HF)	11045(LF.HF)	21510(LF.HF)	11047(LF.HF)	21508(LF.HF)	11025(LF.HF)	10937(LF.HF)	10938(LF.HF)	10533(LF.HF)
3173(LF.HF)	3265(LF.HF)	3266(LF.HF)	3271(LF.HF)	3272(LF.HF)	3286(LF.HF)	3287(LF.HF)	3288(LF.HF)	3289(LF.HF)
3290(LF.HF)	3297(LF.HF)	3302(.HF)	3312(LF.HF)	3317(LF.HF)	3321(LF.HF)	3331(LF.HF)	3346(LF.HF)	3347(LF.HF)
3348(LF.HF)	3351(LF.HF)	3352(LF.HF)	3385(HF)	3386(HF)	3398(LF.HF)	3401(LF.HF)	3417(LF.HF)	3433(LF.HF)
3463(LF.HF)	3464(LF.HF)	3482(LF.HF)	10368(LF.HF)	10369(LF.HF)	1789(LF.HF)	FR9Y(HF)	4478(LF.HF)	

HOOK UP WIRE ,AUTOMOBILE WIRE ,AC ELECTRIC WIRE ,SPEAKER WIRE ,RAINBOW FLAT CABLE

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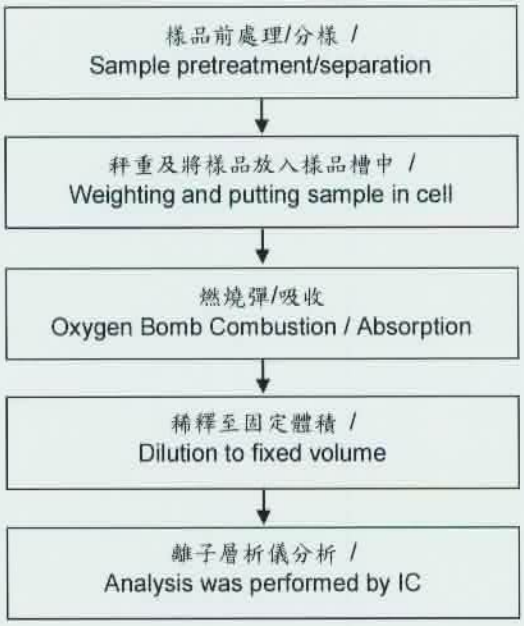
NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.

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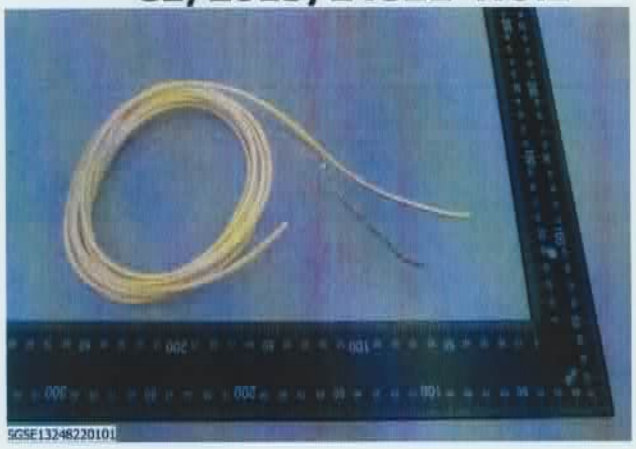
* 照片中如有箭頭標示，則表示爲實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

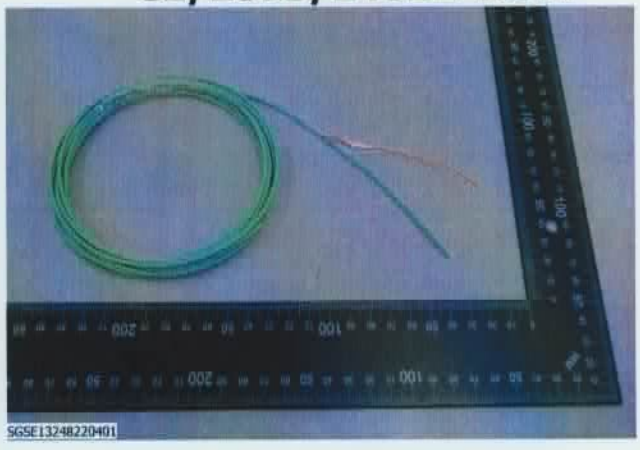
CE/2013/24822 NO.1



CE/2013/24822 NO.2

CE/2013/24822 NO.3

CE/2013/24822 NO.4



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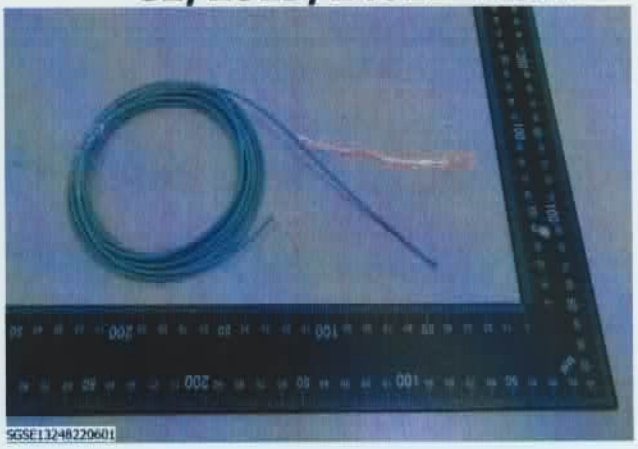
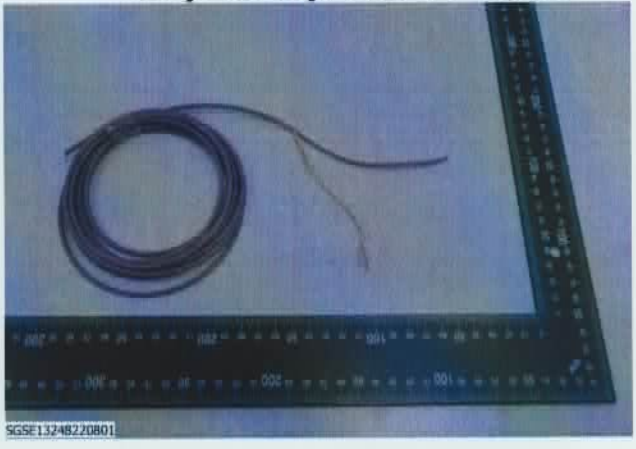
CE/2013/24822 NO.5

CE/2013/24822 NO.6



CE/2013/24822 NO.7

CE/2013/24822 NO.8



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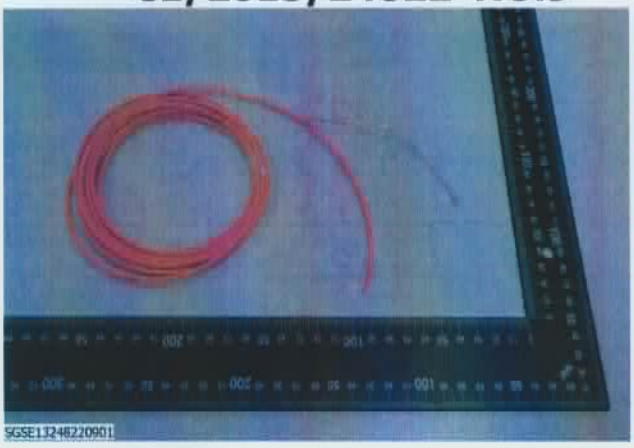
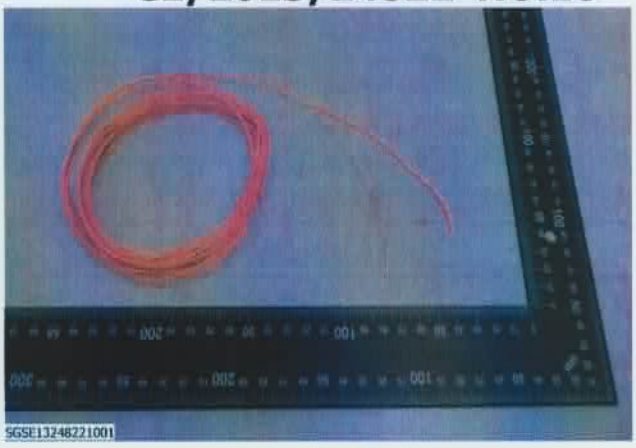
測試報告
Test Report

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.

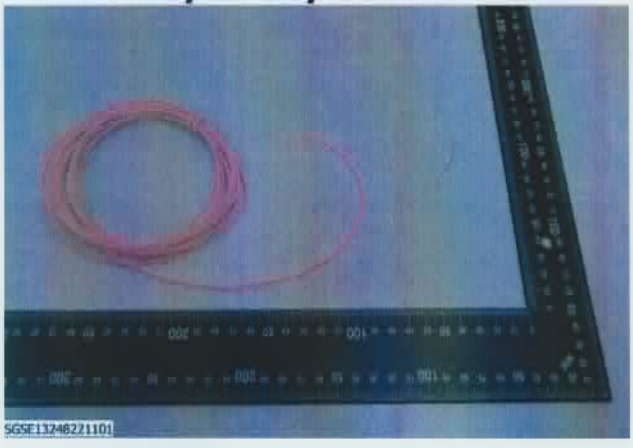
CE/2013/24822 NO.9



CE/2013/24822 NO.10



CE/2013/24822 NO.11



CE/2013/24822 NO.12

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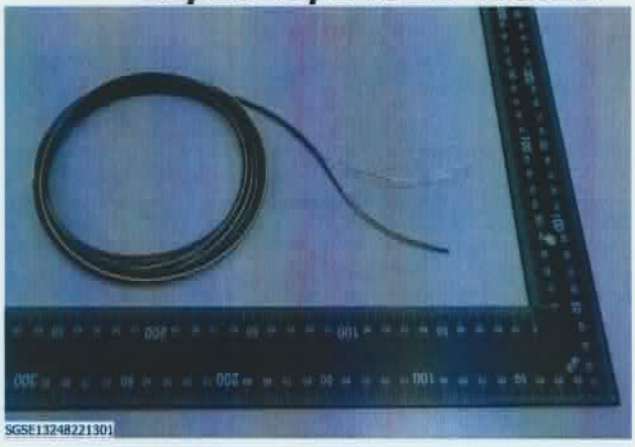
NO. 3, LANE 31, HECHENG RD., BADE CITY, TAO YUAN HSIEN, TAIWAN, R. O. C.

CE/2013/24822 NO.13



** 報告結尾 (End of Report) **

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Signature valid
For Question
Please Contact with SGS
www.tw.sgs.com

測試報告
Test Report

號碼(No.) : CE/2013/51756 日期(Date) : 2013/05/16 頁數(Page) : 1 of 10

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

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By)	:	協祐股份有限公司 (WGJ COMPANY LTD.)
樣品名稱(Sample Description)	:	DUPONT ZYTEL N66
樣品型號(Style/Item No.)	:	FR7025V0FNC
收件日期(Sample Receiving Date)	:	2013/05/13
測試期間(Testing Period)	:	2013/05/13 TO 2013/05/16

==========

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.)

SGS TAIWAN LTD

Troy Chang / Manager-Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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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

測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色塑膠粒 (WHITE PLASTIC 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) No.1	法規限值 (Limit)
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	n.d.	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
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	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.	-

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司 | 33, Wu Chuan Rd., New Taipei Industrial Park, New Taipei City, Taiwan / 新北市新北產業園區五權路33號
t+886 (02)2299 3279 f+886 (02)2299 3237 www.sgs.tw

測試報告
Test Report

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

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)
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	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.	-
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.	-

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Test Report

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

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)
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	-

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)

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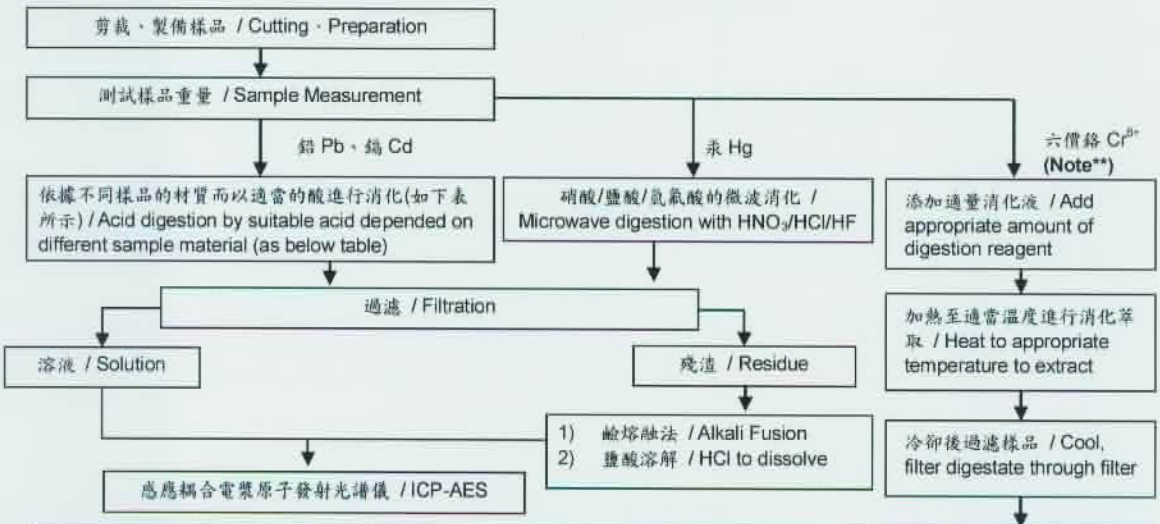
5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN

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. (Cr^{6+} 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



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note** : (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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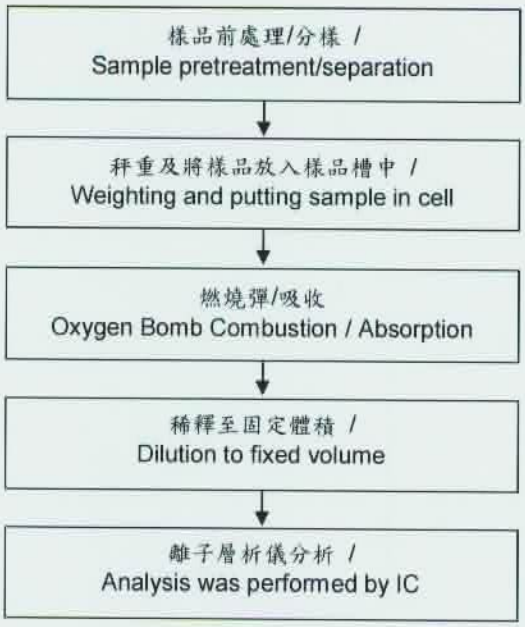
5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN

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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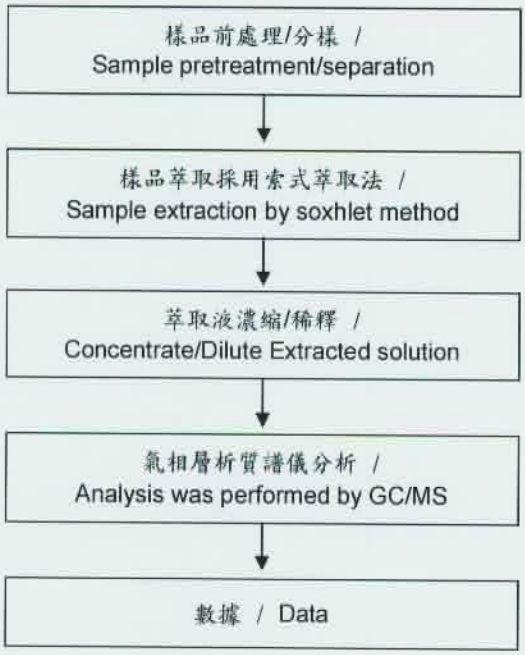
可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 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



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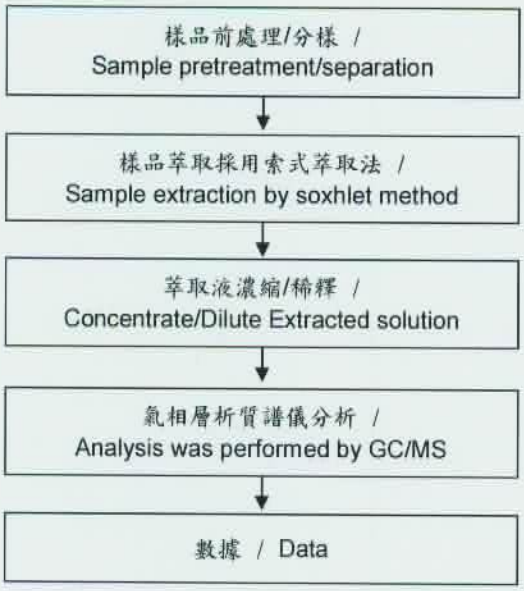
測試報告
Test Report

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

六溴環十二烷分析流程圖 / HBCDD 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



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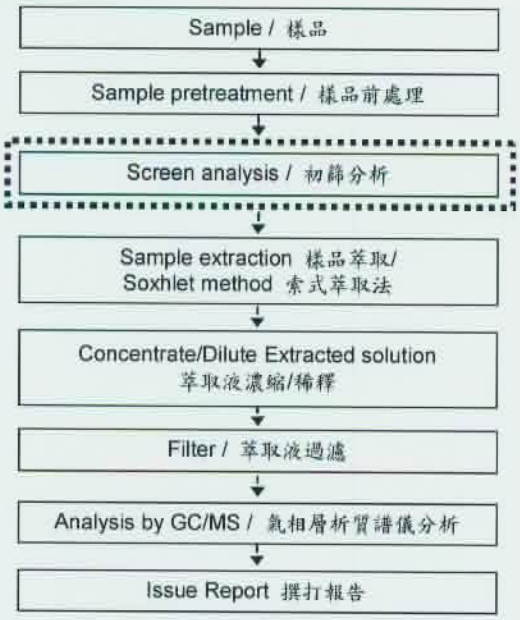
5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN

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

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/2013/51756 日期(Date) : 2013/05/16 頁數(Page) : 10 of 10

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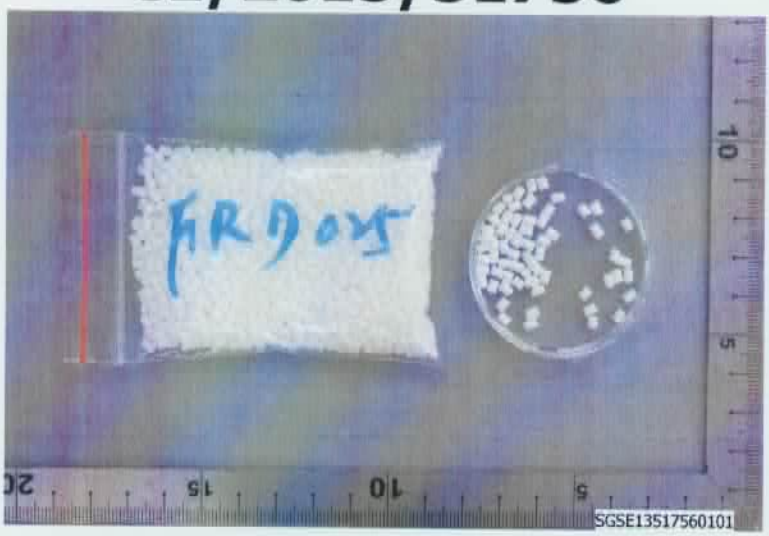
WGJ COMPANY LTD.
桃園縣龜山鄉大崗村頂湖五街5號
5, TINGFU 5TH ST., TAKANG VILLAGE, KWEISHAN HSIANG, TAOYUAN HSIEN 333, TAIWAN

* 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/2013/51756



** 報告結尾 (End of Report) **

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SGS Taiwan Ltd. 33, Wu Chuan Rd., New Taipei Industrial Park, New Taipei City, Taiwan / 新北市新北產業園區五權路33號
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測試報告
Test Report

號碼(No.) : CE/2013/21204 日期(Date) : 2013/02/21 頁數(Page) : 1 of 6

德鋼有限公司
TEH KON INDUSTRIAL CORPORATION
新北市五股區五權七路60號
NO. 60, WUQUAN 7TH RD., WUGU DIST., NEW TAIPEI CITY 24890, 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)	:	BRASS STRIP C2600R
收件日期(Sample Receiving Date)	:	2013/02/07
測試期間(Testing Period)	:	2013/02/07 TO 2013/02/21

==========

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

SGS TAIWAN LTD

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/2013/21204 日期(Date) : 2013/02/21 頁數(Page) : 2 of 6

德鋼有限公司
TEH KON INDUSTRIAL CORPORATION
新北市五股區五權七路60號
NO. 60, WUQUAN 7TH RD., WUGU DIST., NEW TAIPEI CITY 24890, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1 : 黃銅色金屬 (BRASS METAL)

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	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	35
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.
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
有機錫 / Organic-tin compounds				
三丁基錫 / Tributyl Tin (TBT)	mg/kg	參考DIN 38407-13方法，以氣相層析儀/火焰光度偵測器檢測. / With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
三苯基錫 / Triphenyl Tin (TphT)	mg/kg	參考DIN 38407-13方法，以氣相層析儀/火焰光度偵測器檢測. / With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.

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新北市五股區五權七路60號
NO. 60, WUQUAN 7TH RD., WUGU DIST., NEW TAIPEI CITY 24890, TAIWAN

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 cm^2 tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm^2 (tested areas)

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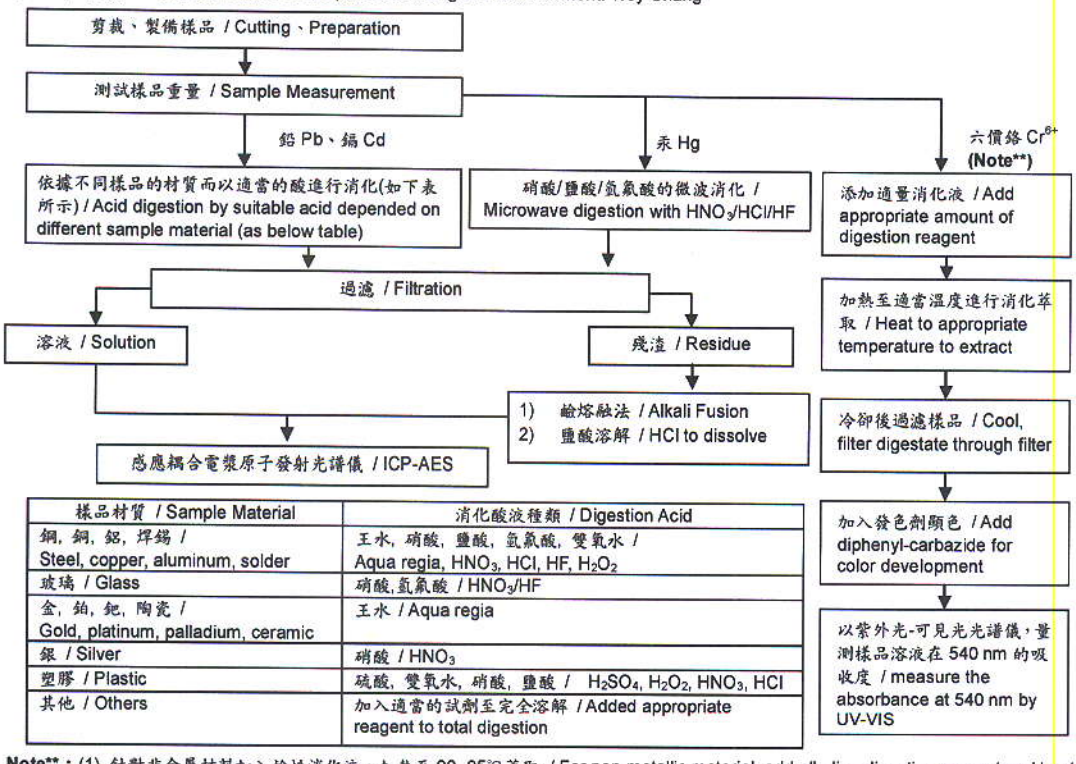
新北市五股區五權七路60號
NO. 60, WUQUAN 7TH RD., WUGU DIST., NEW TAIPEI CITY 24890, TAIWAN

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. (Cr^{6+} 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



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
銅, 鋼, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note** : (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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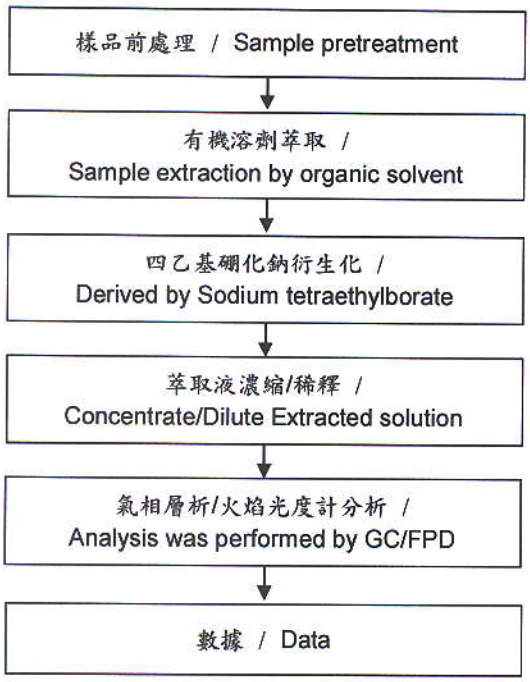
NO. 60, WUQUAN 7TH RD., WUGU DIST., NEW TAIPEI CITY 24890, TAIWAN

有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 測試人員：陳君涵 / Name of the person who made measurement: Ginny Chen
- 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/2013/21204 日期(Date) : 2013/02/21 頁數(Page) : 6 of 6

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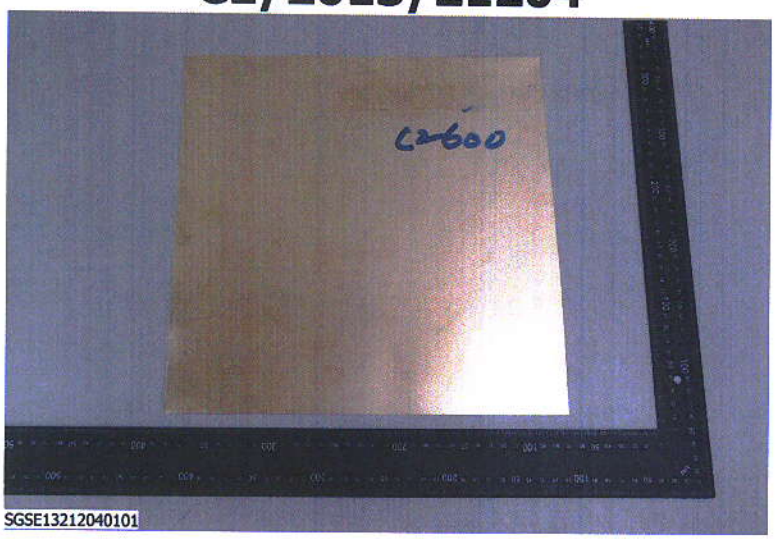
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2013/21204



SGSE13212040101

** 報告結尾 (End of Report) **

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測試報告
Test Report

號碼(No.) : CE/2013/40846　　日期(Date) : 2013/04/11　　頁數(Page): 1 of 4

阿爾發金屬化工股份有限公司
ALPHA METALS TAIWAN INC.
桃園縣蘆竹鄉南山路二段100巷4號
NO. 4, LANE 100, SEC. 2, NAN SHAN RD., LU-CHU HSIANG, 338 TAOYUAN, TAIWAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)	:	PURE TIN SOLDER, LOT: 30118115T / 純錫 焊錫, LOT: 30118115T
收件日期(Sample Receiving Date)	:	2013/4/8
測試期間(Testing Period)	:	2013/4/8 TO 2013/04/11

==========

測試需求(Test Requested) : 依據客户要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method) : 參考IEC 62321: 2008方法 / With reference to IEC 62321: 2008.

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, 其鎘, 鉛, 汞, 六價鉻的測試結果符合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 result(s) of Cadmium, Lead, Mercury, Cr(VI) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.)

SGS TAIWAN LTD SGS TAIWAN

Nicole Chien / Supervisor
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/2013/40846　　日期(Date) : 2013/04/11　　頁數(Page): 2 of 4

阿爾發金屬化工股份有限公司
ALPHA METALS TAIWAN INC.
桃園縣蘆竹鄉南山路二段100巷4號
NO. 4, LANE 100, SEC. 2, NAN SHAN RD., LU-CHU HSIANG, 338 TAOYUAN, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1　　:　銀色金屬 (SILVER COLORED METAL)

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)
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		2	80	1000
汞 / Mercury (Hg)	mg/kg		2	n.d.	1000
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 cm^2 tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm^2 (tested areas)

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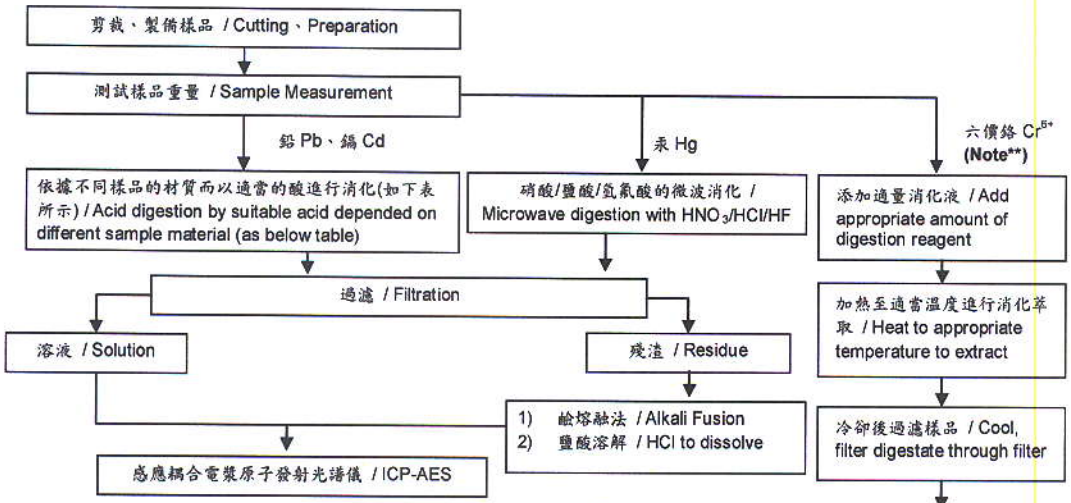
測試報告
Test Report

號碼(No.) : CE/2013/40846　　日期(Date) : 2013/04/11　　

阿爾發金屬化工股份有限公司
ALPHA METALS TAIWAN INC.
桃園縣蘆竹鄉南山路二段100巷4號
NO. 4, LANE 100, SEC. 2, NAN SHAN RD., LU-CHU HSIANG, 338 TAOYUAN, 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. (Cr^{6+} 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



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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號碼(No.) : CE/2013/40846　　日期(Date) : 2013/04/11　　頁數(Page): 4 of 4

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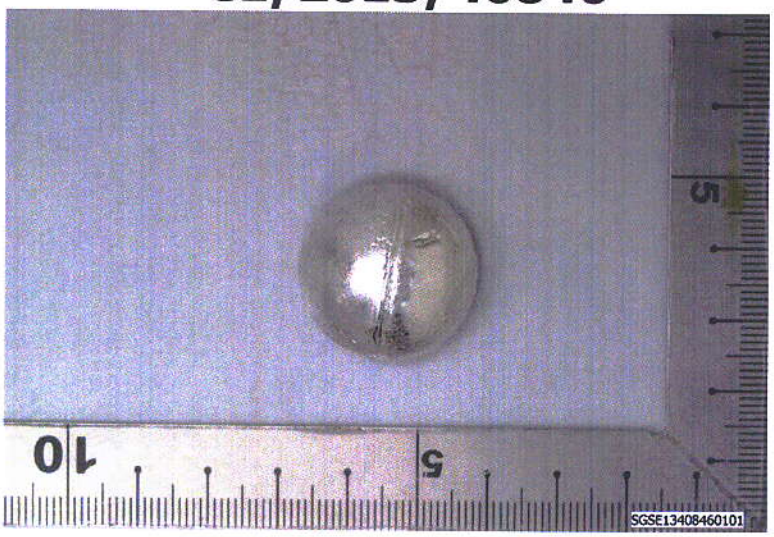
* 照片中如有箭頭標示，則表示爲實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2013/40846



** 報告結尾 (End of Report) **

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