

測試報告 ^{號碼(No.)}: CE/2014/A3961 日期(Date): 2014/10/29

頁數(Page): 1 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

	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)	: SOLDER FLUX
樣品型號(Style/Item No.)	: SMF-WB01
收件日期(Sample Receiving Date)	: 2014/10/23
測試期間(Testing Period)	: 2014/10/23 TO 2014/10/29

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





號碼(No.): CE/2014/A3961 日期(Date): 2014/10/29

頁數(Page): 2 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 淡黄色膏狀 (LT. YELLOW PASTE)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
				No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 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.
鋁 / 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.
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.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008 - Annex C方法,以UV- VIS檢測. / With reference to IEC 62321: 2008 - Annex C and performed by UV-VIS.	2	n.d.
六溴環十二烷及所有主要被辨别出的 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IEC 62321: 2008方法,以氣相層析/質譜 儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.



測試報告 Test Report^{號碼(}

號碼(No.) : CE/2014/A3961

日期(Date) : 2014/10/29

頁數(Page): 3 of 11

Test Report 昇貿科技股份有限公司

异 質 科 技 股 份 有 限 公 司 SHENMAO TECHNOLOGY INC.

桃園縣觀音工業區工業二路12-1號

NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
				No.1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸 / PFOA (CAS No.: 335-67- 1)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85- 68-7)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / 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. / 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; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / 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; 68515-48-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / 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. / 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. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.



號碼(No.) : CE/2014/A3961

日期(Date) : 2014/10/29

頁數(Page): 4 of 11

I est Report 昇貿科技股份有限公司

并算科技股份有限公司 SHENMAO TECHNOLOGY INC.

桃園縣觀音工業區工業二路12-1號

NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)
				No.1
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.
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	1	5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg	1 F	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	参考IEC 62321: 2008 - Annex A方法,以氣	5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg	相層析/質譜儀檢測. / With reference to	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	IEC 62321: 2008 - Annex A and performed by GC/MS.	-	n.d.
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.



號碼(No.): CE/2014/A3961 日期(Date): 2014/10/29

頁數(Page): 5 of 11

异貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

備註(Note):

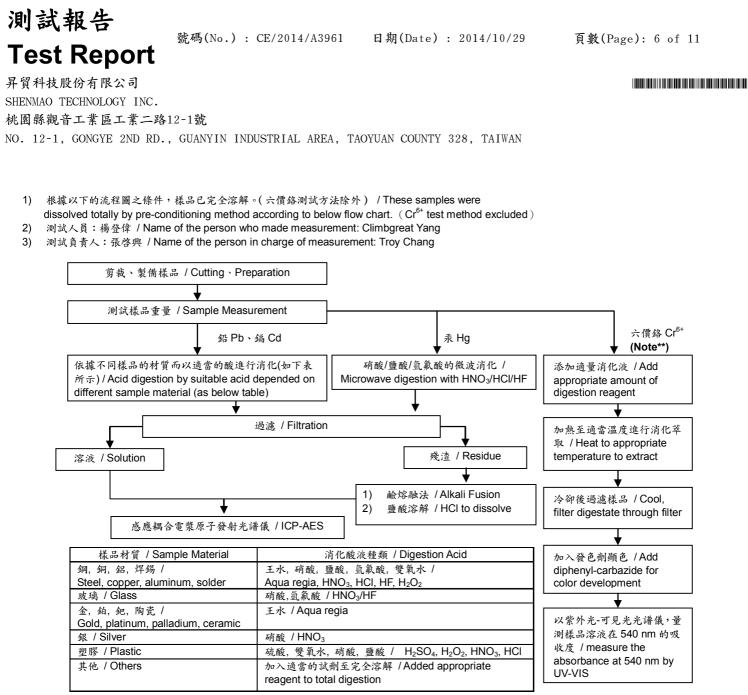
- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1 \mu g/m^2$.)





Note** (For IEC 62321)

- (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,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.



測試報告 Test Report^{號碼(No.)}

號碼(No.) : CE/2014/A3961

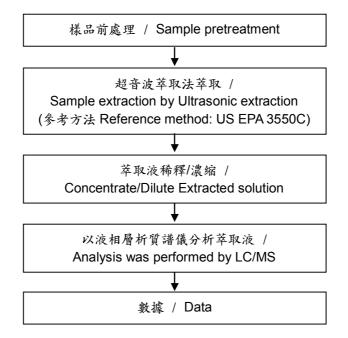
日期(Date) : 2014/10/29

頁數(Page): 7 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS 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





號碼(No.): CE/2014/A3961 日期(Date): 2014/10/29

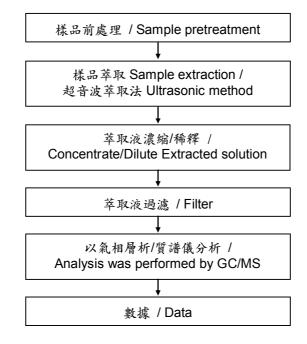
頁數(Page): 8 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, 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





號碼(No.) : CE/2014/A3961

日期(Date): 2014/10/29

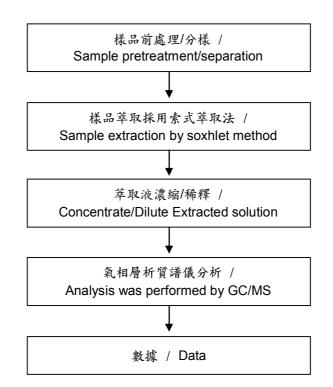
頁數(Page): 9 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, TAIWAN

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





測試報告 Test Report^{號碼(No}

號碼(No.) : CE/2014/A3961

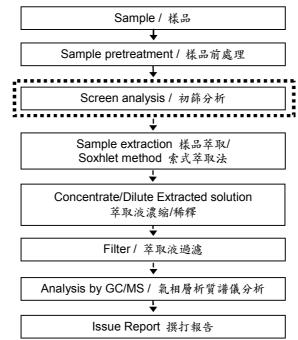
日期(Date) : 2014/10/29

頁數(Page): 10 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, 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 •••••





測試報告 Test Report^{號碼(No.}

號碼(No.) : CE/2014/A3961

日期(Date) : 2014/10/29

頁數(Page): 11 of 11

昇貿科技股份有限公司 SHENMAO TECHNOLOGY INC. 桃園縣觀音工業區工業二路12-1號 NO. 12-1, GONGYE 2ND RD., GUANYIN INDUSTRIAL AREA, TAOYUAN COUNTY 328, 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.)

CE/2014/A3961



** 報告結尾 (End of Report) **