


喬聯化工有限公司  
臺南市仁德區太子四街73巷2號

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：

樣品名稱	:	水標膜油
樣品型號	:	WS-587、WS-588、WS-586、WS-585C、WS-581、WS-580、WS-588M4、WS-509、WS-510、WS-511、WS-512、CP-150、CP-160、CP-200、CP-250
樣品顏色	:	澄清透明
收件日期	:	2014/11/12.
測試期間	:	2014/11/12 TO 2014/11/17
送樣廠商	:	喬聯化工有限公司

=====  
測試結果 : 請見下一頁.

  
  
Ray Chang / Asst. Manager  
Signed for and on behalf of  
SGS Taiwan Limited  
Chemical Laboratory-Kaohsiung

喬聯化工有限公司

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### 測試結果

測試部位 NO.1 : 澄清透明水標膜油

測試項目	單位	測試方法	方法偵測 極限值	結果 NO.1
鎘	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀(ICP-AES)檢測.	2	n.d.
鉛	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀(ICP-AES)檢測.	2	n.d.
汞	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀(ICP-AES)檢測.	2	n.d.
六價鉻 (Alkaline extraction)	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測.	2	n.d.
<b>多溴聯苯總和</b>	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀(GC/MS)檢測.	-	n.d.
一溴聯苯			5	n.d.
二溴聯苯			5	n.d.
三溴聯苯			5	n.d.
四溴聯苯			5	n.d.
五溴聯苯			5	n.d.
六溴聯苯			5	n.d.
七溴聯苯			5	n.d.
八溴聯苯			5	n.d.
九溴聯苯			5	n.d.
十溴聯苯			5	n.d.
<b>多溴聯苯醚總和</b>	mg/kg	參考IEC 62321: 2008方法, 以氣相層析儀/質譜儀(GC/MS)檢測.	-	n.d.
一溴聯苯醚			5	n.d.
二溴聯苯醚			5	n.d.
三溴聯苯醚			5	n.d.
四溴聯苯醚			5	n.d.
五溴聯苯醚			5	n.d.
六溴聯苯醚			5	n.d.
七溴聯苯醚			5	n.d.
八溴聯苯醚			5	n.d.
九溴聯苯醚			5	n.d.
十溴聯苯醚			5	n.d.

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測試項目	單位	測試方法	方法偵測 極限值	結果
				NO.1
全氟辛烷磺酸 (PFOS) PFOS — Acid PFOS — Metal Salt PFOS — Amide	mg/kg	參考US EPA 3550C: 2007方法, 以液相層析/質譜儀檢測.	10	n.d.
全氟辛酸(銨) / 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.	10	n.d.
<b>鹵素</b>				
鹵素 (氟) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析.	50	n.d.
鹵素 (氯) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析.	50	194
鹵素 (溴) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析.	50	n.d.
鹵素 (碘) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析.	50	n.d.

- 備註：
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

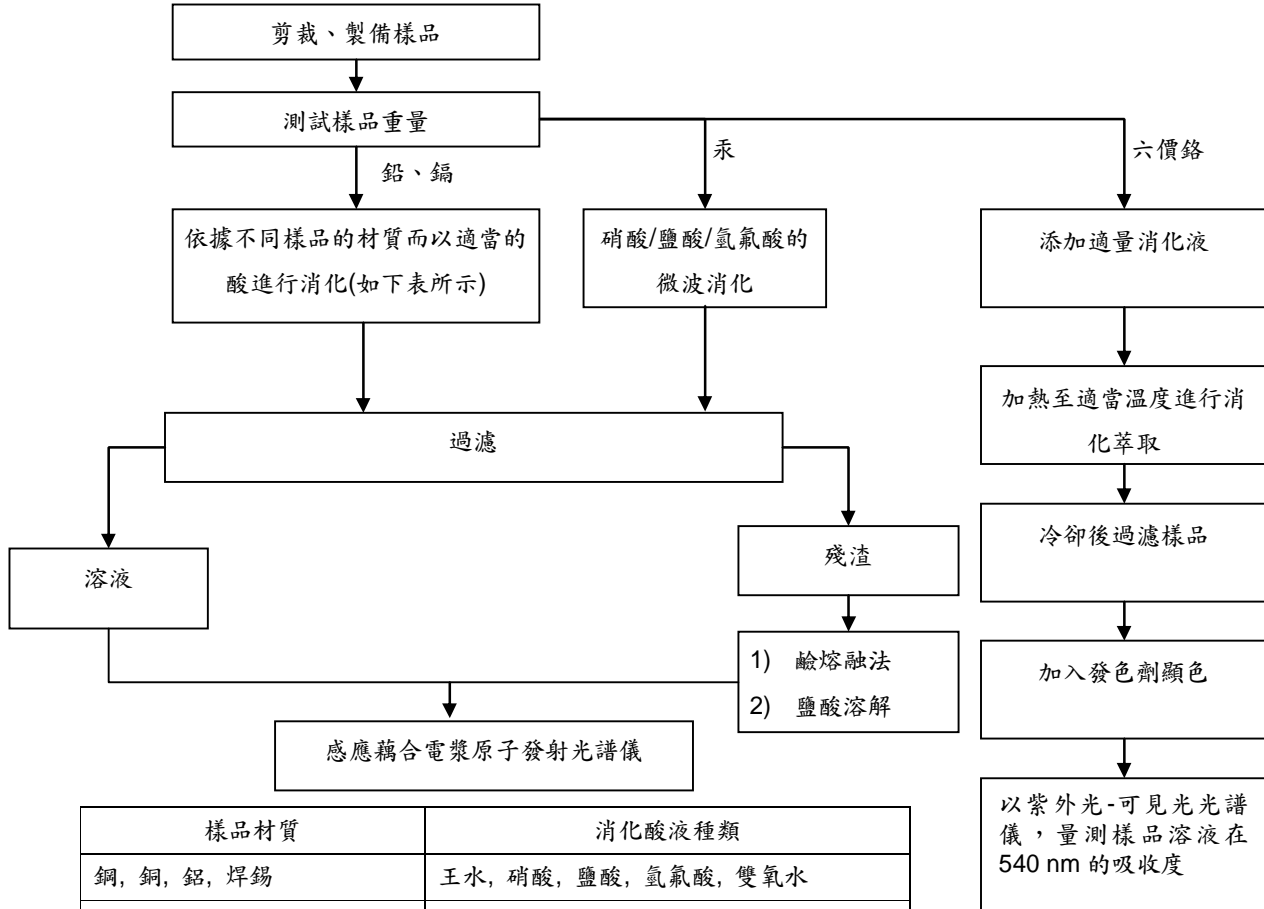
### PFOS參考資訊：持久性有機污染物 POPs - (EU) 757/2010

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/m<sup>2</sup>。

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- 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)
- 2) 測試人員：劉俊宏
- 3) 測試負責人：張伯睿



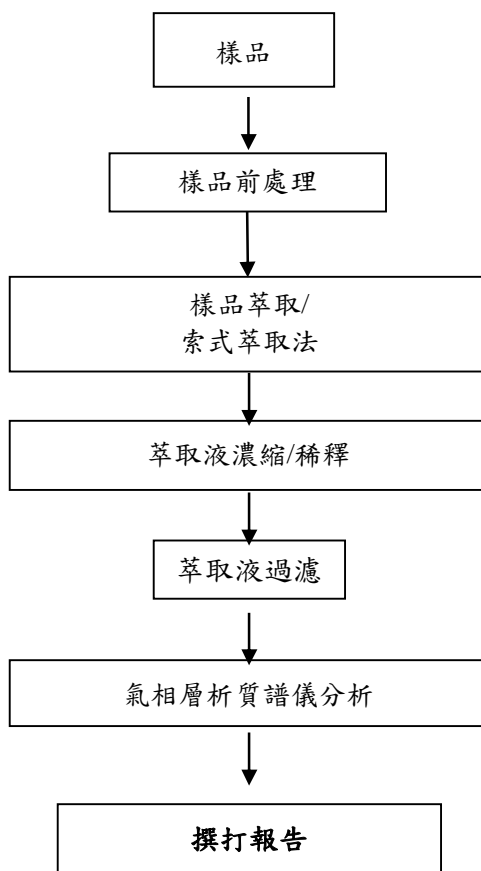
樣品材質	消化酸液種類
銅, 銅, 鋁, 焊錫	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水
玻璃	硝酸, 氫氟酸
金, 鉑, 鈀, 陶瓷	王水
銀	硝酸
塑膠	硫酸, 雙氧水, 硝酸, 鹽酸
其他	加入任何酸至完全溶解

**Note\*\*:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。  
 (2) 針對金屬材料加入純水，加熱至沸騰萃取。

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### 多溴聯苯/多溴聯苯醚分析流程圖

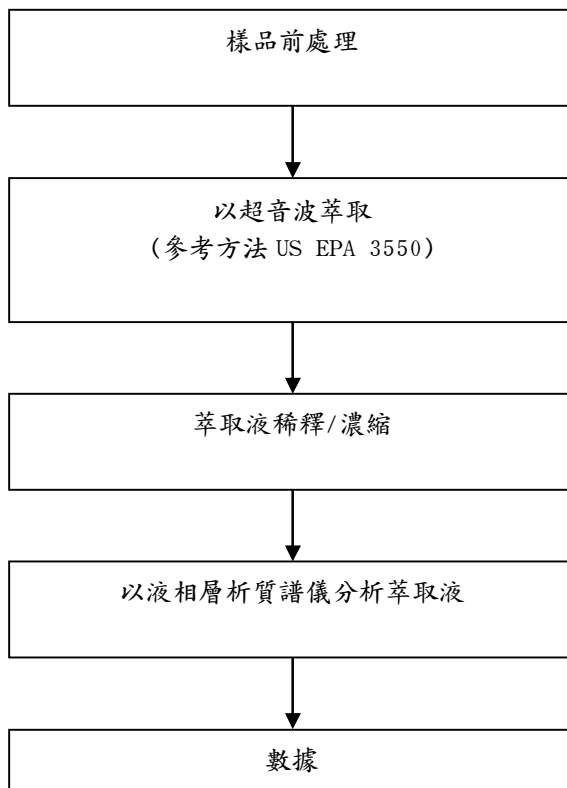
- 1) 測試人員：陳威錚
- 2) 測試負責人：張伯睿



### 全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖

1)測試人員：黃璟瓊

2)測試負責人：張伯睿

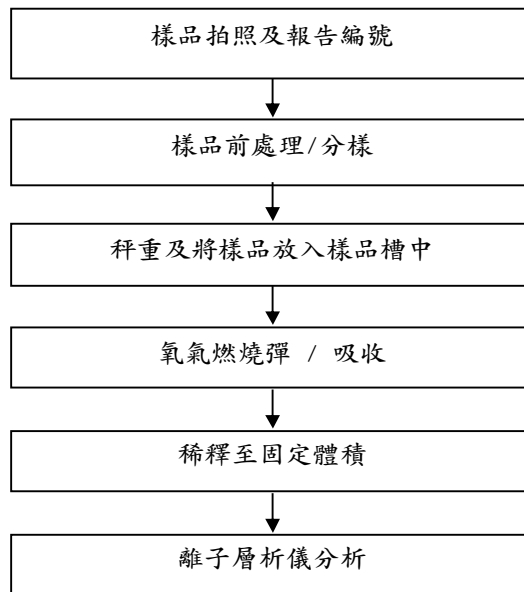


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### 鹵素分析流程圖

- 1) 測試人員：洪秀真
- 2) 測試負責人：張伯睿



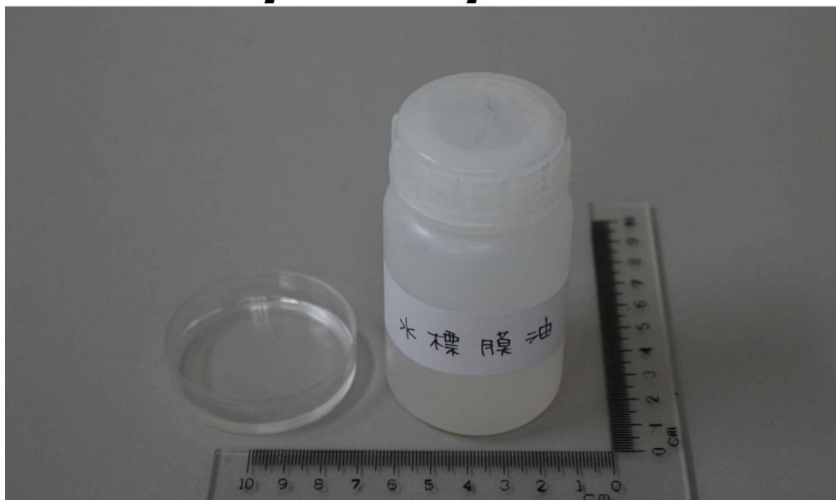
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

## KE/2014/B1101



\*\* 報告結尾 \*\*

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