

測試報告

號碼：KE/2013/12989

日期：2013/02/01

頁數：1 of 7

喬聯化工有限公司

71747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	:	黑色油墨
樣品型號	:	PT-X57
樣品顏色	:	黑色
收件日期	:	2013/01/29.
測試期間	:	2013/01/29 TO 2013/02/01
送樣廠商	:	喬聯化工有限公司

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測試結果 : 請見下一頁.

Ray Chang

Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited



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喬聯化工有限公司

71747臺南市仁德區太子四街73巷2號

測試結果

測試部位 NO.1 : 黑色油墨

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: 2008方法, 用感應 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: 2008方法, 用感應 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: 2008方法, 用感應 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.
多溴聯苯總和	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.
多溴聯苯醚總和	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
鹵素				
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	159
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

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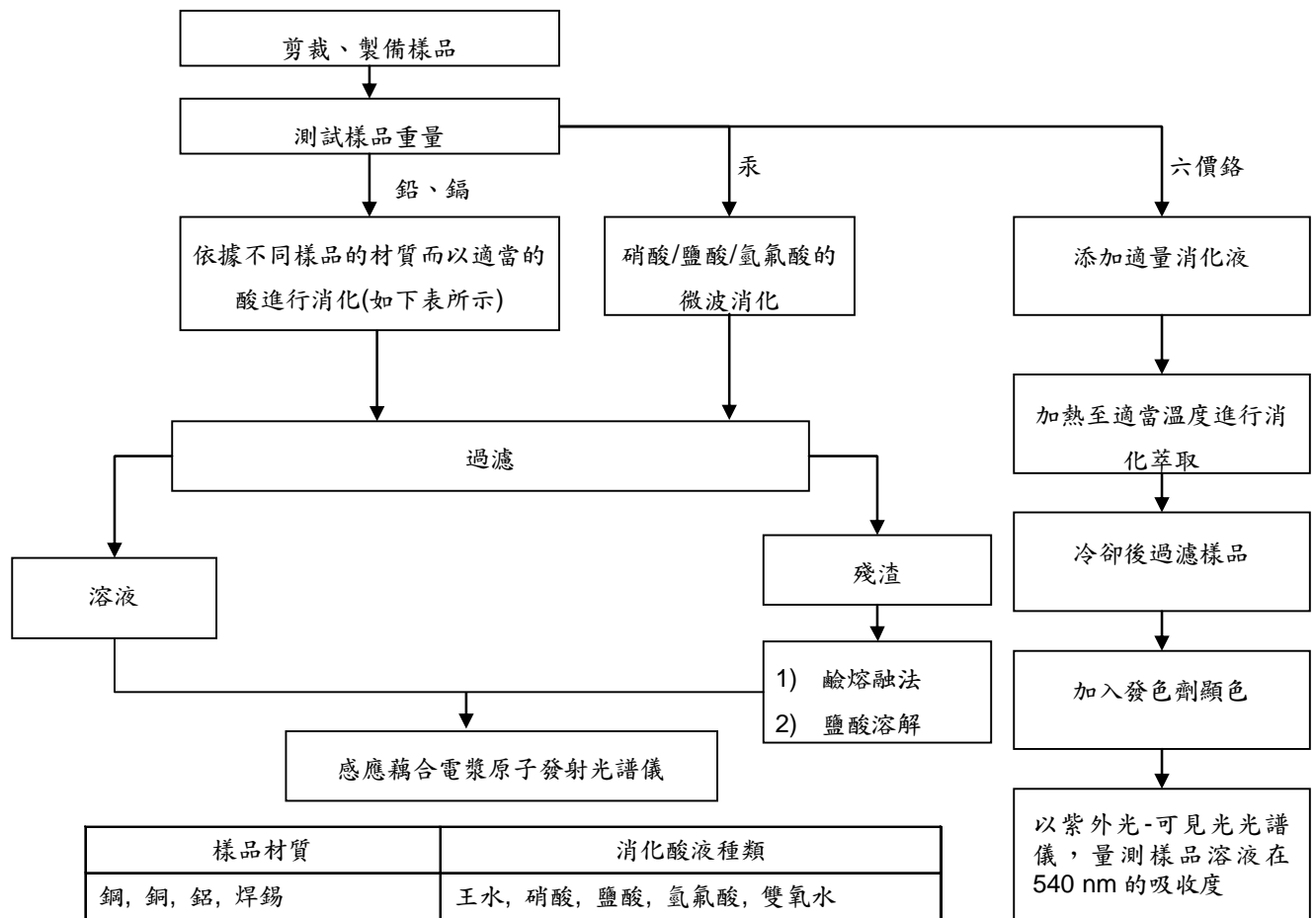
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)
- 2) 測試人員：張俊雄
- 3) 測試負責人：張伯睿



樣品材質	消化酸液種類
鋼, 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。

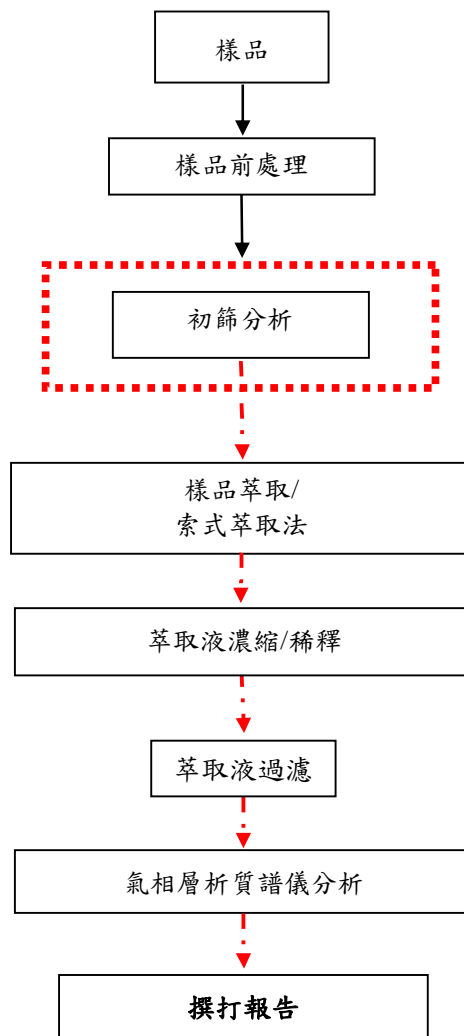
多溴聯苯/多溴聯苯醚分析流程圖

- 1) 測試人員：曹嘉琪
- 2) 測試負責人：張伯睿

初次測試程序 ———→

選擇性篩檢程序 ·····

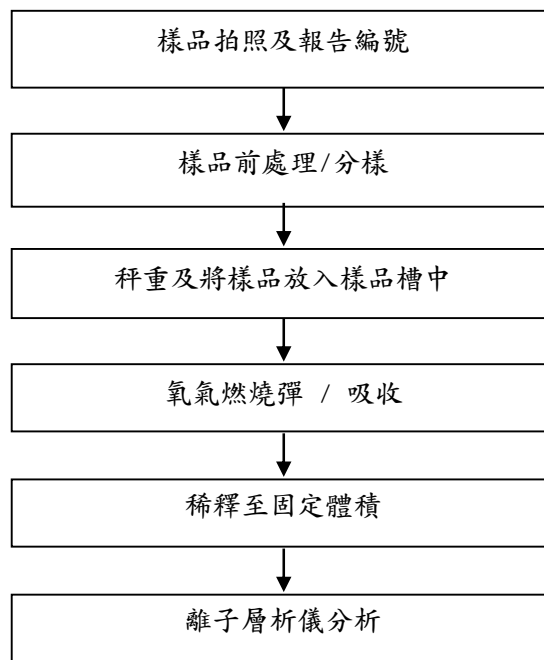
確認程序 - - - ->



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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。*

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** 報告結尾 **

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