

測試報告 Test Report

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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



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) : SOLDER FLUX
樣品型號(Style/Item No.) : P-HS
收件日期(Sample Receiving Date) : 2009/06/29
測試期間(Testing Period) : 2009/06/29 TO 2009/07/03

=====
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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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黃色液體 (YELLOW LIQUID)

| 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 - Clause 8 方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 - Clause 8 and performed by ICP-AES. | 2 | n.d. |
| 鉛 / Lead (Pb) | mg/kg | 參考 IEC 62321: 2008 - Clause 8 方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 - Clause 8 and performed by ICP-AES. | 2 | n.d. |
| 汞 / Mercury (Hg) | mg/kg | 參考 IEC 62321: 2008 - Clause 7 方法, 用感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 - Clause 7 and performed by ICP-AES. | 2 | n.d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | 參考 IEC 62321: 2008 - Annex C 方法, 用 UV-VIS 檢測. / With reference to IEC 62321: 2008 - Annex C and performed by UV-VIS. | 2 | n.d. |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - 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.: 000335-67-1) | 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. |

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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 | 結果 |
|----------------------------------|--------------|---|-------------|------------------|
| | | | (MDL) | (Result) NO.1 |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考IEC 62321: 2008 - Annex A方法, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 - Annex A and performed by GC/MS. | - | n.d. |
| 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. |
| 多溴聯苯醚總和 / Sum of PBDEs | | | - | n.d. |
| 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 | 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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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 $1\mu\text{g}/\text{m}^2$ 。
(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 $1\mu\text{g}/\text{m}^2$ of the coated material.)

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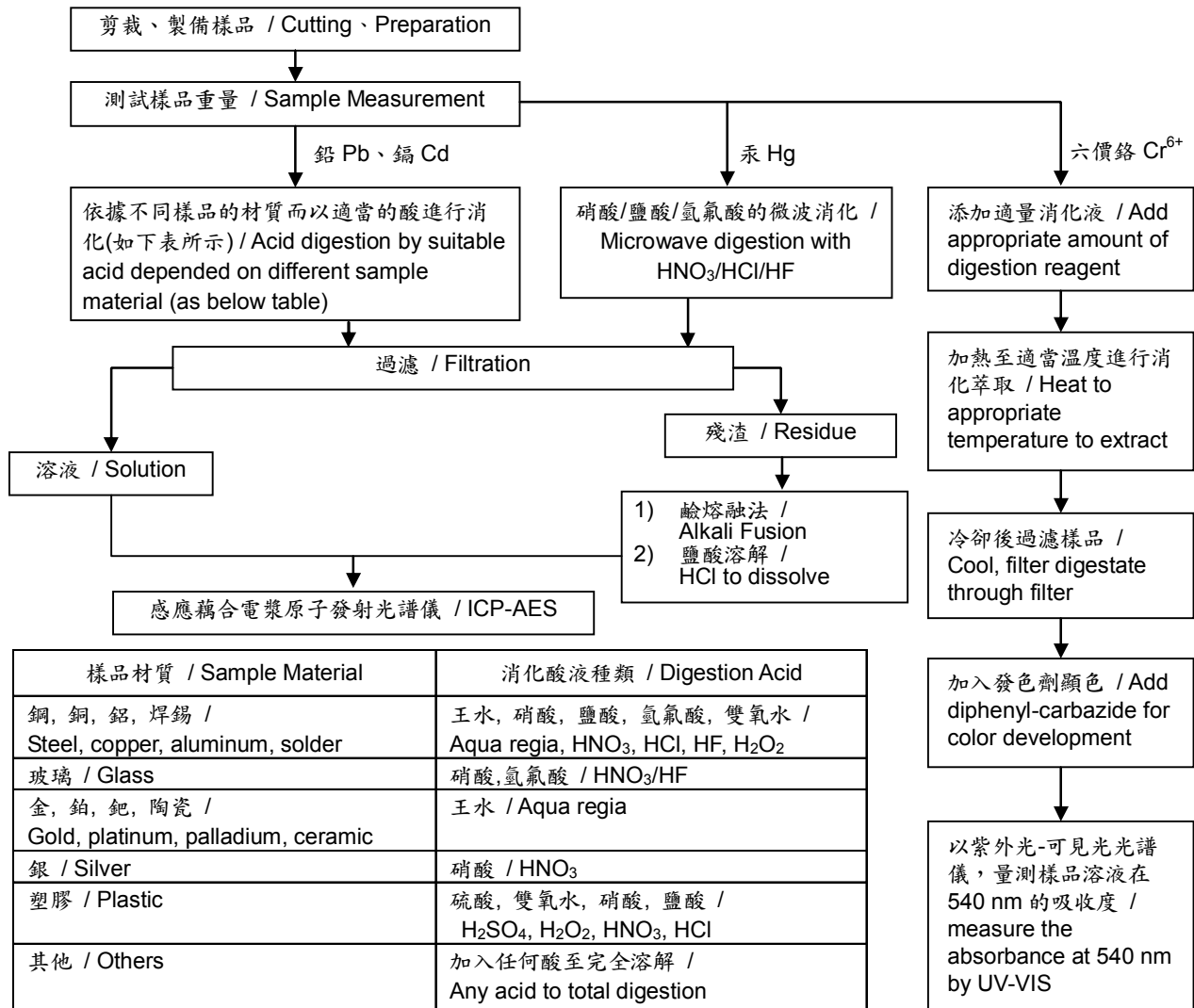
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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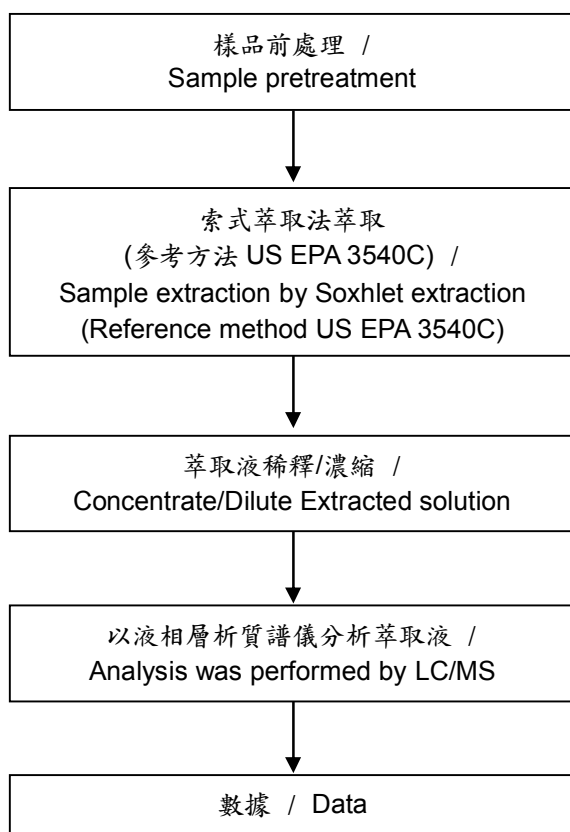
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 1) 測試人員：劉家瑗 / Name of the person who made measurement: Carrie Liu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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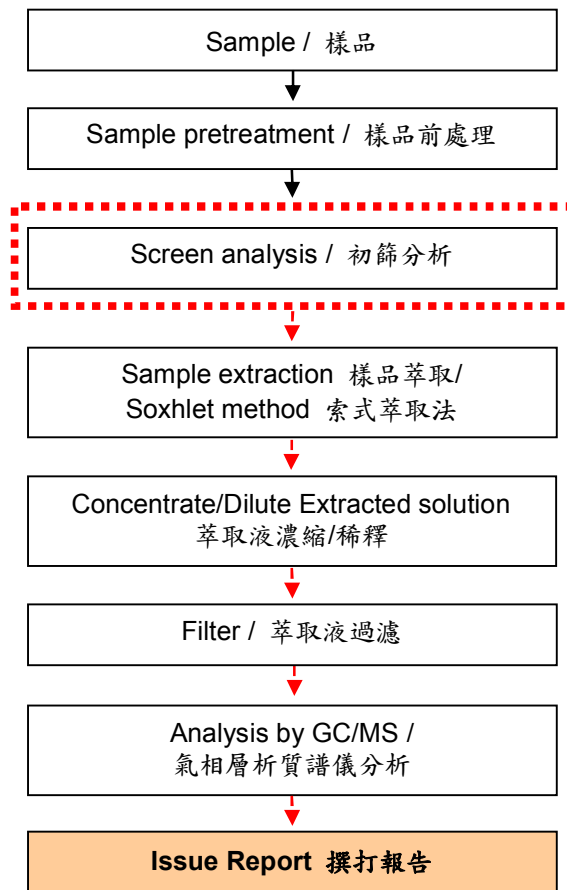
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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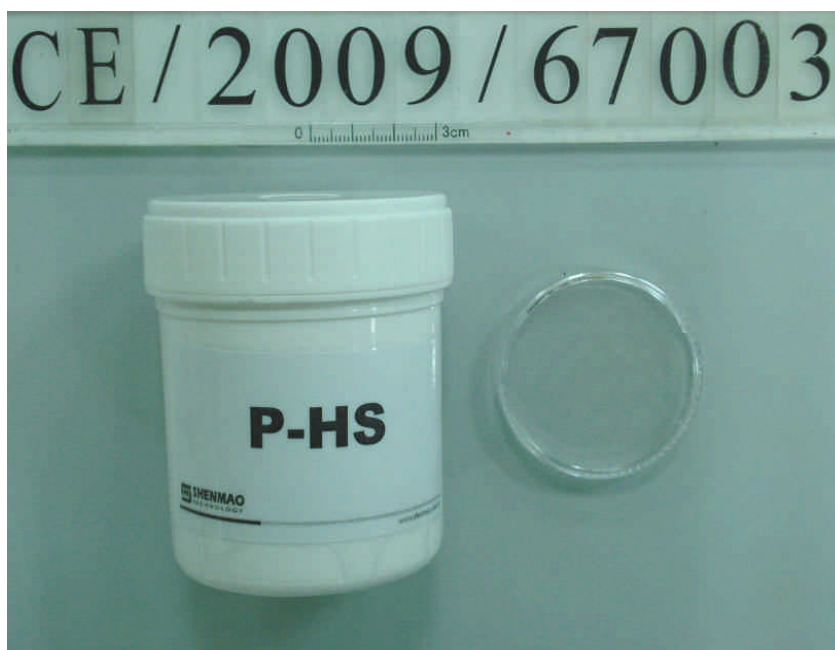
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** 報告結尾(End of Report) **

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