

## 測試報告

## Test Report

號碼(No.) : CE/2014/C4063

日期(Date) : 2014/12/26

頁數(Page): 1 of 7

康普材料科技股份有限公司

COREMAX CORPORATION

新竹縣新竹工業區文化路11號

11 WENHUA ROAD, HSINCHU INDUSTRIAL PARK, HSINCHU COUNTY 30352, 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) : 康普材料科技股份有限公司 (COREMAX CORPORATION)  
樣品名稱(Sample Description) : NICKEL SULFATE (硫酸鎳結晶)  
收件日期(Sample Receiving Date) : 2014/12/19  
測試期間(Testing Period) : 2014/12/19 TO 2014/12/26

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

  
  
Troy Chang, Manager - Tech  
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 : 綠色顆粒 (GREEN GRAIN)

| 測試項目<br>(Test Items)             | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限值<br>(MDL) | 結果 (Result) |
|----------------------------------|--------------|---|----------------------|-------------|
|                                  |              |   |                      | No.1        |
| 鎘 / Cadmium (Cd)                 | mg/kg        | 參考IEC 62321-5: 2013方法, 以感應<br>耦合電漿原子發射光譜儀檢測. / With<br>reference to IEC 62321-5: 2013 and<br>performed by ICP-AES.      | 2                    | n.d.        |
| 鉛 / Lead (Pb)                    | mg/kg        | 參考IEC 62321-5: 2013方法, 以感應<br>耦合電漿原子發射光譜儀檢測. / With<br>reference to IEC 62321-5: 2013 and<br>performed by ICP-AES.      | 2                    | n.d.        |
| 汞 / Mercury (Hg)                 | mg/kg        | 參考IEC 62321-4: 2013方法, 以感應<br>耦合電漿原子發射光譜儀檢測. / With<br>reference to IEC 62321-4: 2013 and<br>performed by ICP-AES.      | 2                    | n.d.        |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg        | 參考IEC 62321: 2008方法, 以UV-VIS<br>檢測. / With reference to IEC<br>62321: 2008 and performed by UV-<br>VIS.                 | 2                    | n.d.        |
| 砷 / Arsenic (As)                 | mg/kg        | 參考US EPA 3052方法, 以感應耦合電<br>漿原子發射光譜儀檢測. / With<br>reference to US EPA Method 3052.<br>Analysis was performed by ICP-AES. | 2                    | n.d.        |
| 銀 / Silver (Ag)                  | mg/kg        | 參考US EPA 3052方法, 以感應耦合電<br>漿原子發射光譜儀檢測. / With<br>reference to US EPA Method 3052.<br>Analysis was performed by ICP-AES. | 2                    | n.d.        |

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| 測試項目<br>(Test Items)             | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限值<br>(MDL) | 結果 (Result) |
|----------------------------------|--------------|---|----------------------|-------------|
|                                  |              |   |                      | No.1        |
| 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.        |
| 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.        |
| 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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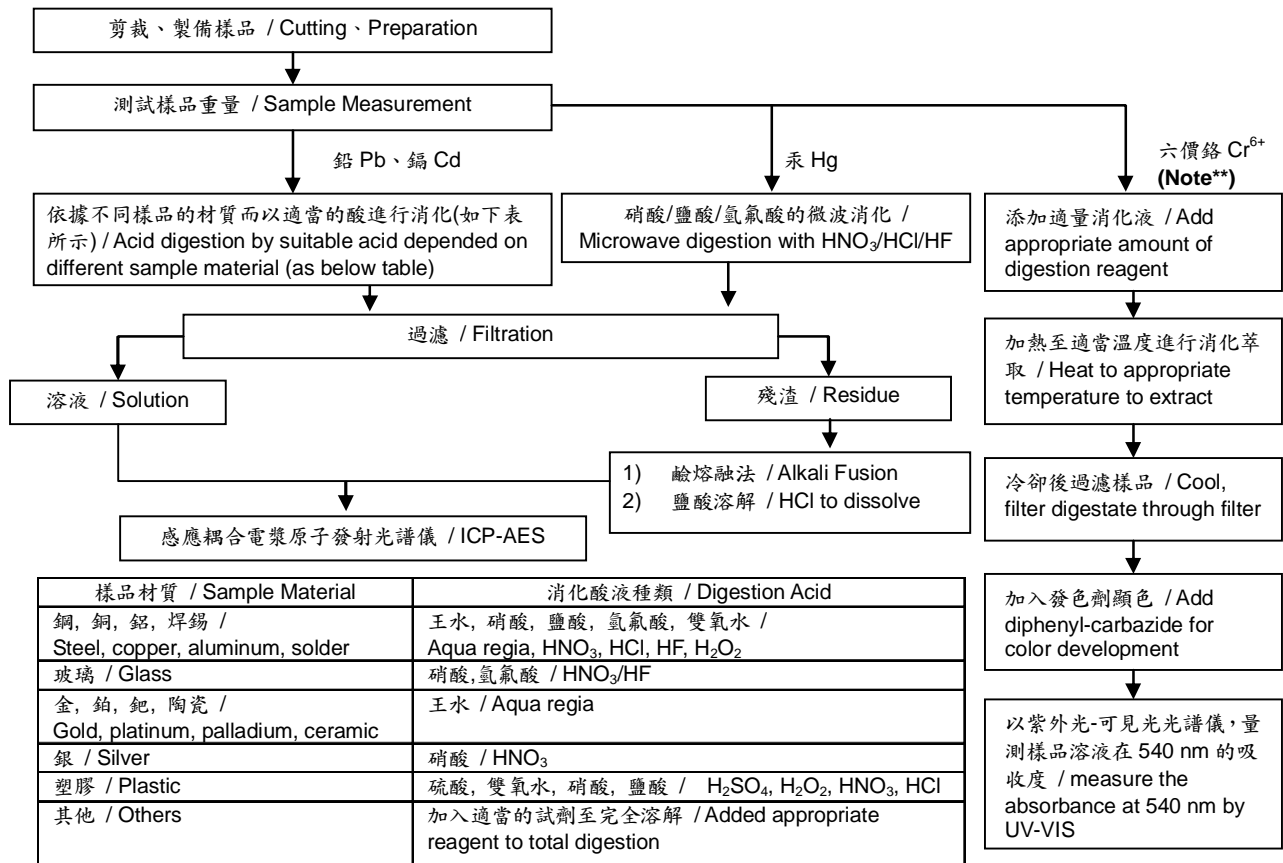
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新竹縣新竹工業區文化路11號

11 WENHUA ROAD, HSINCHU INDUSTRIAL PARK, HSINCHU COUNTY 30352, 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<sup>6+</sup> 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



**Note\*\* (For IEC 62321)**

- (1) 針對非金屬材料加入鹼性消化液，加熱至 90-95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90-95°C.
- (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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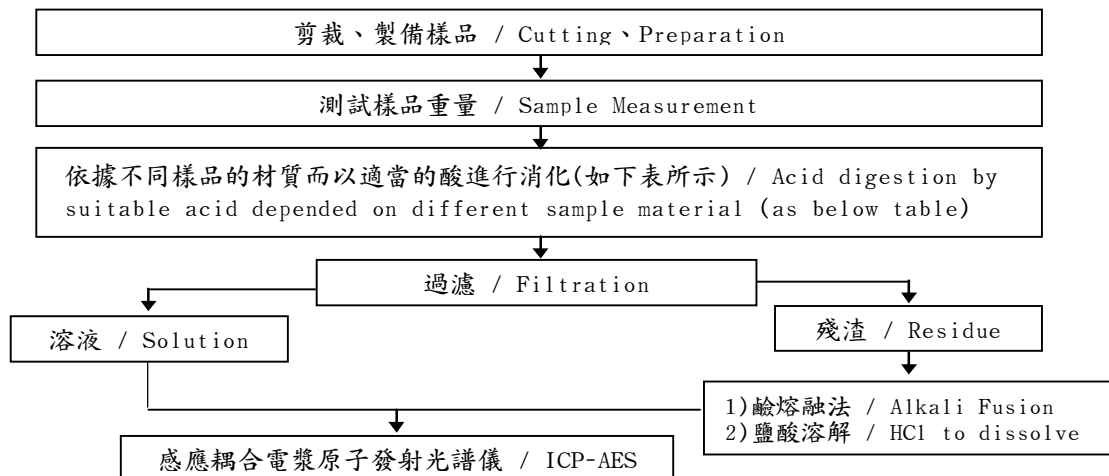
11 WENHUA ROAD, HSINCHU INDUSTRIAL PARK, HSINCHU COUNTY 30352, TAIWAN R. O. C.



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

### 元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



|  |   |
|--|---|
| 鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder    | 王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>              |
| 玻璃 / Glass                                       | 硝酸, 氫氟酸 / HNO <sub>3</sub> /HF  |
| 金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic | 王水 / Aqua regia   |
| 銀 / Silver                                       | 硝酸 / HNO <sub>3</sub>   |
| 塑膠 / Plastic                                     | 硫酸, 雙氧水, 硝酸, 鹽酸 / H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl |
| 其他 / Others                                      | 加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion   |

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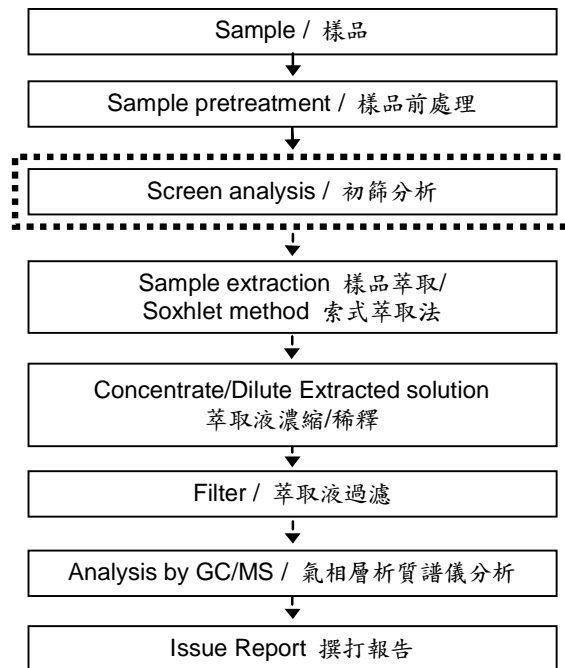
### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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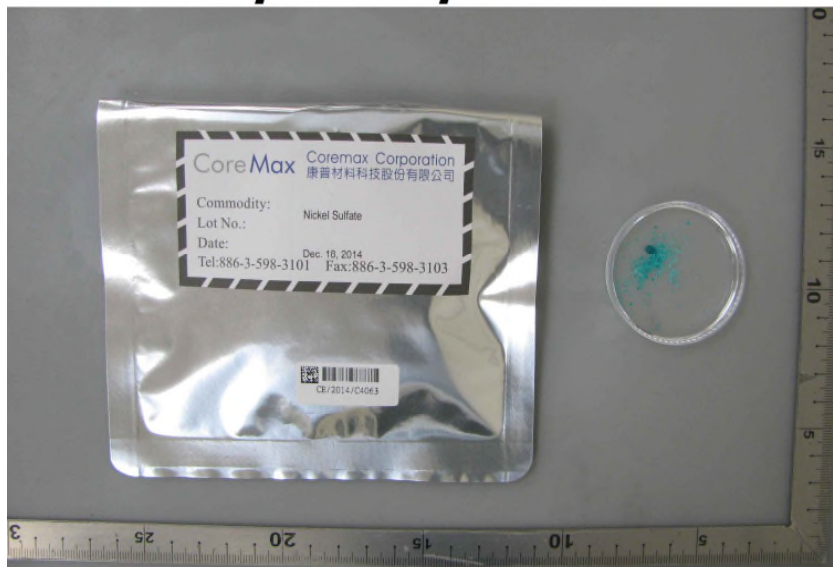
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

### CE/2014/C4063



\*\* 報告結尾 (End of Report) \*\*

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