

## 測試報告

號碼 : CY/2012/B0166      日期 : 2012/11/09      頁數 : 1 of 6

皇冠金屬工業股份有限公司  
台北市復興南路一段2號8樓之1



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 : 膳魔師不銹鋼真空保溫瓶 (JNL-500-DPL)  
 樣品型號 : JNL-500-DPL  
 樣品材質 : NO.1:PP, NO.2:PP, NO.3:PP, NO.4:矽膠, NO.5:不銹鋼  
 生產或供應廠商 : TOP THERMO MFG. SDN. BHD.  
 原產國 : 馬來西亞  
 收件日期 : 2012/11/02  
 測試期間 : 2012/11/02 TO 2012/11/09

- =====  
 測試需求 :
- (1) 依據客戶指定，參考中華民國食品器具容器包裝衛生標準第五條 (101.09.21署授食字第1011302926號令修正)進行以下測試：
    - 材質試驗：鉛、鎘。
    - 溶出測試：鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP)。
  - (2) 材質試驗：鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、鄰苯二甲酸二正辛酯 (DNOP)、鄰苯二甲酸二甲酯 (DMP)、鄰苯二甲酸二乙酯 (DEP)。  
 溶出測試：鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、己二酸二辛酯 (DEHA) (DOA)。
  - (3) 依據客戶指定，參考中華民國食品器具容器包裝衛生標準第四條 (101.01.18署授食字第1001303928號令修正)進行以下測試：
    - 材質試驗：鉛、鎘。
  - (4) 材質試驗：鉛、鎘。
  - (5) 依據客戶指定，進行以下測試：
    - 材質試驗：耐熱測試(120°C)。
    - 其它試驗：鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁苯甲酯 (BBP)、鄰苯二甲酸二正辛酯 (DNOP)、鄰苯二甲酸二甲酯 (DMP)、鄰苯二甲酸二乙酯 (DEP)。

測試結果 : 請見下一頁。

\* 本報告部份測試結果係引用自報告 CY/2012/B0159 相同材質/部位之測試結果 \*



James Lu / Supervisor  
 Signed for and on behalf of  
 SGS TAIWAN LTD.  
 Chemical Laboratory – Taipei

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皇冠金屬工業股份有限公司  
台北市復興南路一段2號8樓之1



- 結論**：
- (1) 根據客戶所提供的樣品，其測試結果符合中華民國食品器具容器包裝衛生標準第五條 (101.09.21署授食字第1011302926號令修正)。
  - (3) 根據客戶所提供的樣品，其測試結果符合中華民國食品器具容器包裝衛生標準第四條 (101.01.18署授食字第1001303928號令修正)。

### 測試結果

- 測試部位 No.1：深紫色塑膠(彈蓋) (CY/2012/B0159 No.1)
- 測試部位 No.2：黑色塑膠(中栓) (CY/2012/B0159 No.2)
- 測試部位 No.3：白色塑膠(中栓) (CY/2012/B0159 No.3)
- 測試部位 No.4：咖啡色矽膠套(中栓) (CY/2012/B0159 No.4)
- 測試部位 No.5：銀色金屬瓶 (CY/2012/B0159 No.5)

(1)

通過

| 測試項目  | 單位  | 測試方法  | 方法偵測<br>極限值 | 結果   |      |      |      |      | 法規<br>限值 |
|---|-----|---|-------------|------|------|------|------|------|----------|
|   |     |   |             | No.1 | No.2 | No.3 | No.4 | No.5 |          |
| 鉛   | ppm | 參考食品器具、容器、包裝<br>檢驗方法-塑膠類之檢驗<br>(100年7月14日署授食字第<br>1001902289號修正)，以<br>ICP-AES分析。  | 5           | n.d. | n.d. | ---  | ---  | ---  | 100      |
| 鎘   | ppm |   | 0.5         | n.d. | n.d. | ---  | ---  | ---  | 100      |
| 鄰苯二甲酸二(2-乙基己基)酯<br>(DEHP) (CAS No.: 117-81-7)<br>(正庚烷, 25°C, 1小時) | ppm | 參考食品器具、容器、包裝<br>檢驗方法-塑膠類之檢驗<br>(100年7月14日署授食字第<br>1001902289號修正)，以氣<br>相層析/質譜儀檢測。 | 0.05        | n.d. | n.d. | n.d. | n.d. | ---  | 1.5      |
| 鄰苯二甲酸二丁酯 (DBP) (CAS<br>No.: 84-74-2) (正庚烷, 25°C,<br>1小時)          | ppm |   | 0.05        | n.d. | n.d. | n.d. | n.d. | ---  | 0.3      |

(2)

| 測試項目  | 單位 | 測試方法  | 方法偵測<br>極限值 | 結果   |      |      |      |      | 法規<br>限值 |
|---|----|---|-------------|------|------|------|------|------|----------|
|   |    |   |             | No.1 | No.2 | No.3 | No.4 | No.5 |          |
| 鄰苯二甲酸二(2-乙基己基)酯<br>(DEHP) (CAS No.: 117-81-7) | %  | 參考CNS 15138方法，以氣<br>相層析儀/質譜儀(GC/MS)檢<br>測之。 | 0.003       | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二正辛酯 (DNOP)<br>(CAS No.: 117-84-0)       | %  |   | 0.003       | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二甲酯 (DMP) (CAS<br>No.: 131-11-3)         | %  |   | 0.003       | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二丁酯 (DBP) (CAS<br>No.: 84-74-2)          | %  |   | 0.003       | n.d. | n.d. | ---  | ---  | ---  | 0.1      |

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皇冠金屬工業股份有限公司  
台北市復興南路一段2號8樓之1



(2)

| 測試項目   | 單位  | 測試方法   | 方法偵測<br>極限值 | 結果   |      |      |      |      | 法規<br>限值 |
|--|-----|--|-------------|------|------|------|------|------|----------|
|  |     |  |             | No.1 | No.2 | No.3 | No.4 | No.5 |          |
| 鄰苯二甲酸甲苯基丁酯 (BBP)<br>(CAS No.: 85-68-7)                         | %   | 參考CNS 15138方法, 以氣<br>相層析儀/質譜儀(GC/MS)檢<br>測之.                                       | 0.003       | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二異壬酯 (DINP)<br>(CAS No.: 28553-12-0)                      | %   |  | 0.01        | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二異癸酯 (DIDP)<br>(CAS No.: 26761-40-0)                      | %   |  | 0.01        | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二乙酯 (DEP) (CAS<br>No.: 84-66-2)                           | %   |  | 0.003       | n.d. | n.d. | ---  | ---  | ---  | 0.1      |
| 鄰苯二甲酸二異壬酯 (DINP)<br>(CAS No.: 28553-12-0) (正庚<br>烷, 25°C, 1小時) | ppm | 參考食品器具、容器、包裝<br>檢驗方法-塑膠類之檢驗<br>(100年7月14日署授食字第<br>1001902289號修正), 以氣<br>相層析/質譜儀檢測. | 0.5         | n.d. | n.d. | n.d. | n.d. | ---  | 9        |
| 鄰苯二甲酸二異癸酯 (DIDP)<br>(CAS No.: 26761-40-0) (正庚<br>烷, 25°C, 1小時) | ppm |  | 0.5         | n.d. | n.d. | n.d. | n.d. | ---  | 9        |
| 鄰苯二甲酸丁苯甲酯 (BBP)<br>(CAS No.: 85-68-7) (正庚烷,<br>25°C, 1小時)      | ppm |  | 0.05        | n.d. | n.d. | n.d. | n.d. | ---  | 30       |
| 己二酸二辛酯 (DEHA) (DOA)<br>(CAS No.: 103-23-1) (正庚烷,<br>25°C, 1小時) | ppm |  | 0.05        | n.d. | n.d. | n.d. | n.d. | ---  | 18       |

(3)

通過

| 測試項目 | 單位  | 測試方法  | 方法偵測<br>極限值 | 結果   |      |      |      |      | 法規<br>限值 |
|------|-----|---|-------------|------|------|------|------|------|----------|
|      |     |   |             | No.1 | No.2 | No.3 | No.4 | No.5 |          |
| 鉛    | ppm | 參考食品器具、容器、包裝<br>檢驗方法-塑膠類之檢驗<br>(100年7月14日署授食字第<br>1001902289號修正), 以<br>ICP-AES分析. | 5           | ---  | ---  | n.d. | ---  | ---  | 100      |
|      | ppm |   | 5           | ---  | ---  | ---  | n.d. | ---  | 100      |
| 鎘    | ppm |   | 0.5         | ---  | ---  | n.d. | ---  | ---  | 100      |
|      | ppm |   | 0.5         | ---  | ---  | ---  | n.d. | ---  | 100      |

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皇冠金屬工業股份有限公司  
台北市復興南路一段2號8樓之1



(4)

| 測試項目 | 單位 | 測試方法                         | 方法偵測極限值 | 結果   |      |      |      |      | 法規限值 |
|------|----|------------------------------|---------|------|------|------|------|------|------|
|      |    |                              |         | No.1 | No.2 | No.3 | No.4 | No.5 |      |
| 鉛    | %  | 參考US EPA 3050B方法，以ICP-AES分析。 | 0.0002  | ---  | ---  | ---  | ---  | n.d. | 10   |
| 錫    | %  | 參考US EPA 3050B方法，以ICP-AES分析。 | 0.0002  | ---  | ---  | ---  | ---  | n.d. | 5    |

(5)

| 測試項目                                       | 單位 | 測試方法   | 方法偵測極限值 | 結果   |      |      |      |      | 法規限值 |
|--|----|--|---------|------|------|------|------|------|------|
|  |    |  |         | No.1 | No.2 | No.3 | No.4 | No.5 |      |
| 耐熱測試(120°C)                                | -  | 參考行政院衛生署100年7月14日署授食字第1001902289號，食品器具、容器、包裝檢驗方法—塑膠類之檢驗。 | -       | 無變形  | 無變形  | 無變形  | 無變形  | ---  | -    |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (CAS No.: 117-81-7) | %  | 參考CNS 15138方法，以氣相層析儀/質譜儀(GC/MS)檢測之。                      | 0.003   | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸二正辛酯 (DNOP) (CAS No.: 117-84-0)       | %  |  | 0.003   | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸二甲酯 (DMP) (CAS No.: 131-11-3)         | %  |  | 0.003   | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸二丁酯 (DBP) (CAS No.: 84-74-2)          | %  |  | 0.003   | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸甲苯基丁酯 (BBP) (CAS No.: 85-68-7)        | %  |  | 0.003   | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸二異壬酯 (DINP) (CAS No.: 28553-12-0)     | %  |  | 0.01    | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸二異癸酯 (DIDP) (CAS No.: 26761-40-0)     | %  |  | 0.01    | ---  | ---  | n.d. | n.d. | ---  | -    |
| 鄰苯二甲酸二乙酯 (DEP) (CAS No.: 84-66-2)          | %  |  | 0.003   | ---  | ---  | n.d. | n.d. | ---  | -    |

### 備註：

- 0.1wt% = 1000ppm ; mg/kg = ppm
- MDL = Method Detection Limit / 方法偵測極限值
- n.d. = Not Detected / 未檢出
- "-" = Not Regulated / 無規格值
- "---" = Not Conducted / 未測項目

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### CY/2012/B0166



SGSY12B01660001

### CY/2012/B0166 NO.1



SGSY12B01660101

### CY/2012/B0166 NO.2



SGSY12B01660201

### CY/2012/B0166 NO.3



SGSY12B01660301

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台北市復興南路一段2號8樓之1



### CY/2012/B0166 NO.4



SGSY12B01660401

### CY/2012/B0166 NO.5



SGSY12B01660501

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