

## 測試報告

號碼：CY/2012/31858

日期：2012/03/30

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杯 (JNI-400-P)  
樣品型號：JNI-400-P  
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：2012/03/20  
測試期間：2012/03/20 TO 2012/03/30

- =====  
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四條 (101.01.18署授食字第1001303928號令修正)進行以下測試：  
- 材質測試：鉛、鎘。  
- 溶出測試：鄰苯二甲酸2-乙基己基酯 (DEHP)、鄰苯二甲酸二丁酯 (DBP)。  
(2) 材質測試：鉛、鎘。  
(3) 溶出測試：鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸丁基苯酯 (BBP)、鄰苯二甲酸二辛酯 (DOP)。  
(4) 依據客戶指定，進行以下測試：  
- 材質測試：耐熱測試(120°C)。  
- 其它測試：鄰苯二甲酸二(2-乙基己基)酯 (DEHP)、鄰苯二甲酸二正辛酯 (DNOP)、鄰苯二甲酸二甲酯 (DMP)、鄰苯二甲酸二丁酯 (DBP)、鄰苯二甲酸甲苯基丁酯 (BBP)、鄰苯二甲酸二異壬酯 (DINP)、鄰苯二甲酸二異癸酯 (DIDP)、鄰苯二甲酸二乙酯 (DEP)。
- 測試結果：請見下一頁。
- 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四條 (101.01.18署授食字第1001303928號令修正)。



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

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台北市復興南路一段2號8樓之1



### 測試結果

- 測試部位 No.1 : 桃紅色塑膠(彈蓋)
- 測試部位 No.2 : 白色塑膠(中栓)
- 測試部位 No.3 : 卡其色塑膠(按鈕)
- 測試部位 No.4 : 咖啡色矽膠圈(中栓)
- 測試部位 No.5 : 銀色金屬杯

(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  | mg/kg | 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. | n.d. | ---  | ---  | 100      |
| 鎘  | mg/kg |   | 0.5         | n.d. | n.d. | n.d. | ---  | ---  | 100      |
| 鉛  | mg/kg |   | 5           | ---  | ---  | ---  | n.d. | ---  | 100      |
| 鎘  | mg/kg |   | 0.5         | ---  | ---  | ---  | n.d. | ---  | 100      |
| 鄰苯二甲酸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)<br>(CAS No.: 84-74-2) (正庚<br>烷, 25°C, 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 |          |
| 鉛    | %  | 參考US EPA 3050B方法, 以<br>ICP-AES分析。 | 0.0002      | ---  | ---  | ---  | ---  | n.d. | 10       |
| 鎘    | %  | 參考US EPA 3050B方法, 以<br>ICP-AES分析。 | 0.0002      | ---  | ---  | ---  | ---  | n.d. | 5        |

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台北市復興南路一段2號8樓之1



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| 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 |          |
| 鄰苯二甲酸二異壬酯 (DINP)<br>(CAS No.: 28553-12-0) (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。 | 0.5         | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二異癸酯 (DIDP)<br>(CAS No.: 26761-40-0) (正庚烷, 25°C, 1小時) | ppm |  | 0.5         | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸丁基苯酯 (BBP)<br>(CAS No.: 85-68-7) (正庚烷, 25°C, 1小時)     | ppm |  | 0.05        | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二辛酯 (DOP)<br>(CAS No.: 117-84-0) (正庚烷, 25°C, 1小時)     | ppm |  | 0.05        | n.d. | n.d. | n.d. | n.d. | ---  | -        |

(4)

| 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. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二正辛酯 (DNOP)<br>(CAS No.: 117-84-0)       | %  |  | 0.003       | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二甲酯 (DMP)<br>(CAS No.: 131-11-3)         | %  |  | 0.003       | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二丁酯 (DBP)<br>(CAS No.: 84-74-2)          | %  |  | 0.003       | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸甲苯基丁酯 (BBP)<br>(CAS No.: 85-68-7)        | %  |  | 0.003       | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二異壬酯 (DINP)<br>(CAS No.: 28553-12-0)     | %  |  | 0.01        | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二異癸酯 (DIDP)<br>(CAS No.: 26761-40-0)     | %  |  | 0.01        | n.d. | n.d. | n.d. | n.d. | ---  | -        |
| 鄰苯二甲酸二乙酯 (DEP)<br>(CAS No.: 84-66-2)          | %  |  | 0.003       | n.d. | n.d. | n.d. | n.d. | ---  | -        |

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台北市復興南路一段2號8樓之1



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| 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 |          |
| 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  | ---  | -        |

### 備註：

- 0.1wt% = 1000ppm ; mg/kg = ppm ; mg/L = ppm ;  $\mu\text{g/ml}$  = 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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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

### CY/2012/31858



SGSY12318580001

### CY/2012/31858



SGSY12318580002

### CY/2012/31858 NO.1



SGSY12318580101

### CY/2012/31858 NO.2



SGSY12318580201

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### CY/2012/31858 NO.3



### CY/2012/31858 NO.4



### CY/2012/31858 NO.5



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