

試驗報告 Test Report

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統新光訊股份有限公司

APOGEE OPTOCOM CO., LTD.

台南市新市區南科三路7號4樓

4F., NO.7, NAN-KE 3RD RD., HSIN-SHI DIST., TAINAN CITY 744, 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) : 反射膜
收件日期(Sample Receiving Date) : 2018/03/02
測試期間(Testing Period) : 2018/03/02 TO 2018/03/12
送樣廠商(Sample Submitted By) : 統新光訊股份有限公司 (APOGEE OPTOCOM CO., LTD.)

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

Ray Chang

報告簽署人/Ray Chang, Ph.D./Manager-Tech
Signed for and on behalf of
SGS Taiwan Limited



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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 金/銀色 反射膜 (GOLD/SILVER COLORED FILM)

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
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2016, 以離子層析儀分析. / With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2016, 以離子層析儀分析. / With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發 射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.
三氧化二銻 / Antimony trioxide (Sb2O3)*** (CAS No.: 1309-64-4)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發 射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	-	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.***: 該物質各別元素(例如:銻)之測試

結果計算得知. 其MDL是針對銻之評估. (The substance was calculated by the test results of
element (Ex. Antimony). The MDL is evaluated for element (Ex. Antimony respectively.))

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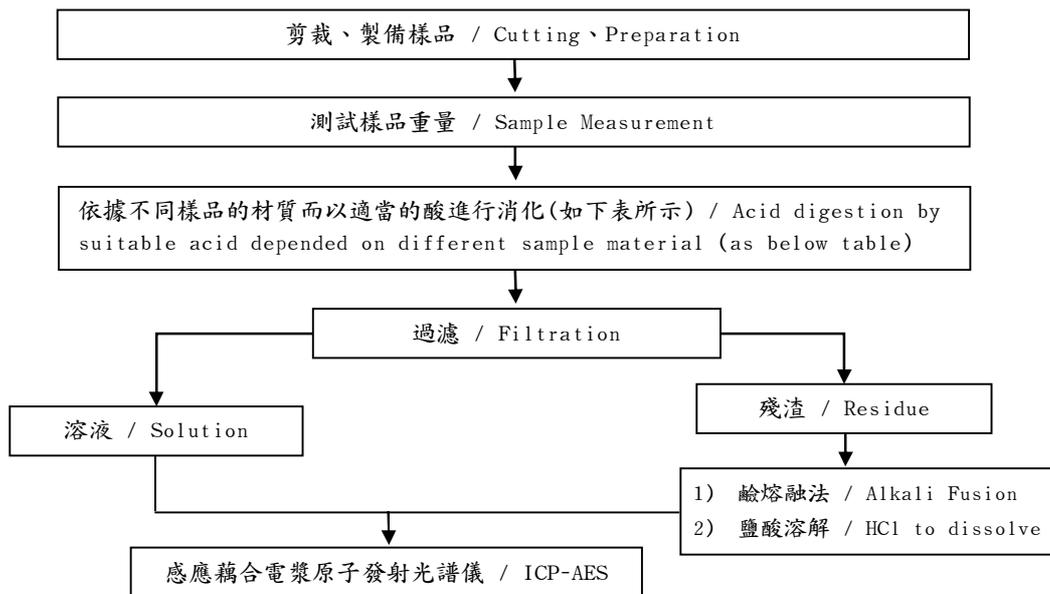
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray 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 ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion

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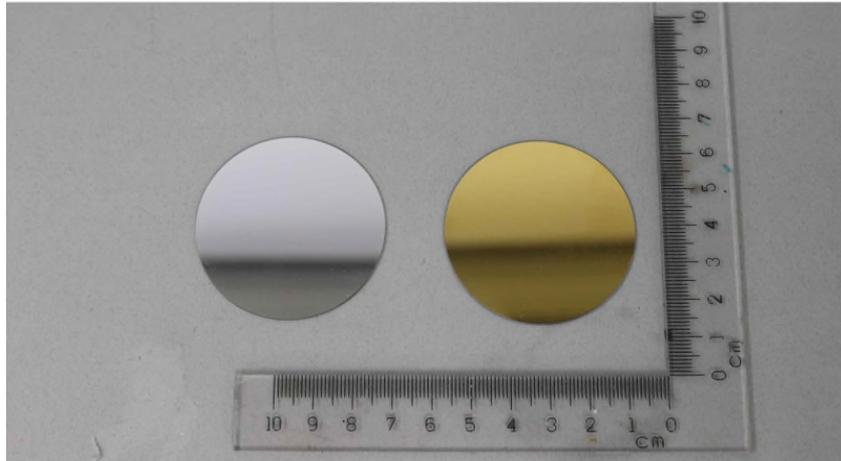
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

KA/2018/30136



** 報告結尾(End of Report) **