

#### <u>Material Test Reports - Insulated Terminals</u>

Materials test reports as supplied from our manufacturer/partner for Insulated Terminals, manufactured and tested to meet Cablecraft standards.



The Cablecraft Group of Companies





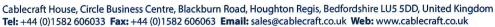




















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# 測試報告

號碼(No.): KA/2016/40742

日期(Date): 2016/04/21

頁數(Page): 1 of 5

#### Test Report

集勝端子股份有限公司

JEESOON TERMINALS CO., LTD.

504 彰化縣秀水鄉彰水路二段102巷11號

NO.11, LANE 102, SEC-2, CHANG SOYE ROAD, HSIU SHUI HSIANG, CHANG HUA HSIEN, TAIWAN

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):

樣品名稱(Sample Description)

: 紅銅鍍錫 (TIN PLATED COPPER)

樣品型號(Style/Item No.)

: G-N

收件日期(Sample Receiving Date)

: 2016/04/14

測試期間(Testing Period)

: 2016/04/14 TO 2016/04/21

送樣廠商(Sample Submitted By)

: 集勝端子股份有限公司 (JEESOON TERMINALS CO., LTD.)

\_\_\_\_\_\_

測試需求(Test Requested):

依據客户要求,參考 RoHS 指令 2011/65/EU Annex II 測試鎬、鉛、汞、六價鉻. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method)

請見下一頁 (Please refer to next pages).

測試結果(Test Results)

請見下一頁 (Please refer to next pages).

結論(Conclusion)

根據客户所提供的樣品,其鎬、鉛、汞、六價鉻的測試結果符合 RoHS 指令 2011/65/EU Annex II之限值要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI) comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)

Ray Chang Ph.D. / Manage Signed for and on behalf of

**SGS Taiwan Limited** 

Chemical Laboratory-Kaohsiung

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頁數(Page): 2 of 5

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#### 測試結果(Test Results)

測試部位(PART NAME)No.1

: 銀色 紅銅鍍錫 (SILVER TIN PLATED COPPER)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
鍋 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價络 / Hexavalent Chromium Cr(VI)(#2)		参考IEC 62321-7-1:2015,以UV-VIS檢測./ With reference to IEC 62321-7-1:2015 and performed by UV-VIS.	0.10	n.d.	- E,

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號碼(No.): KA/2016/40742 日期(Date): 2016/04/21

頁數(Page): 3 of 5

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#### 備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限値)
- 4. "-" = Not Regulated (無規格値)
- 5. (#2) =
  - a. 當六價鉻結果大於0.13 μg/cm²,表示樣品表層含有六價鉻. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu g/cm^2$ . The sample coating is considered to contain Cr(VI).
  - b. 當六價鉻結果爲n.d. (濃度小於0.10 µg/cm²),表示表層不含六價鉻. / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
  - c. 當六價鉻結果介於 0.10 及 0.13 μg/cm² 時,無法確定塗層是否含有六價鉻. / The result between 0.10 μg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

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頁數(Page): 4 of 5

### Test Report

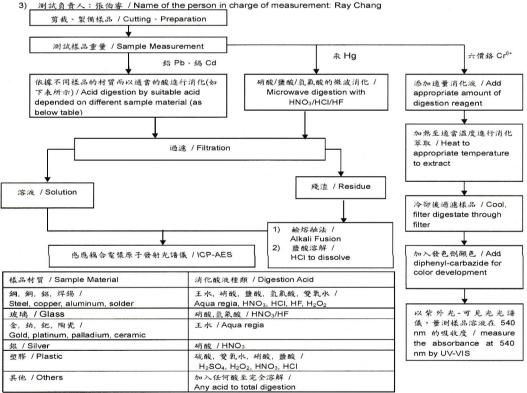
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。( 六價鉻測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. ( Cr<sup>6+</sup> test method excluded )
- 2) 測試人員: 劉俊宏 / Name of the person who made measurement; Jony Liu



Note\*\*: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃

(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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頁數(Page): 5 of 5

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\* 照片中如有箭頭標示,則表示爲實際檢測之樣品/部位. \*

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



\*\* 報告結尾 (End of Report) \*\*

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