

# 試驗報告

號碼(No.): KA/2019/40525 日期(Date): 2019/04/12

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**Test Report** 

逸威國際貿易有限公司 E-WELL INTERNATIONAL TRADING CO., LTD. 臺南市安平區建平十五街30號 NO. 30, JIANPING 15TH ST., ANPING DIST., TAINAN CITY 708 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) : 逸威國際貿易有限公司(E-WELL INTERNATIONAL TRADING CO., LTD.) 樣品名稱(Sample Description) : 高碳鋼線 收件日期(Sample Receiving Date) : 2019/04/03 測試期間(Testing Period) : 2019/04/12

#### 測試需求(Test Requested):

依據客戶指定,參考RoHS指令2011/65/EU Annex II測試鎘、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(s).)

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測試方法(Test Method)	:	請參閱下一頁	(Please	refer	to	following	pages).
測試結果(Test Results)	:	請參閱下一頁	(Please	refer	to	following	pages).



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### 試驗報告 Test Report <sup>號碼(No.)</sup>: KA/20

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### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 銀色金屬 (SILVER COLORED METAL)

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
鎘 / 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	2	n. d.
鉛 / Lead (Pb)	mg/kg	reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n. d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4:2013+AMD1:2017,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321- 4:2013+AMD1:2017 and performed by ICP- AES.	2	n. d.
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm²		0.10	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. (#2) =

a. 當六價鉻結果大於0.13 µg/cm<sup>2</sup>,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 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).

b. 當六價鉻結果為n.d. (濃度小於0.10 µg/cm<sup>2</sup>),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/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.

c. 當六價鉻結果介於 0.10 及 0.13  $\mu$ g/cm<sup>2</sup> 時,無法確定塗層是否含有六價鉻. / The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.

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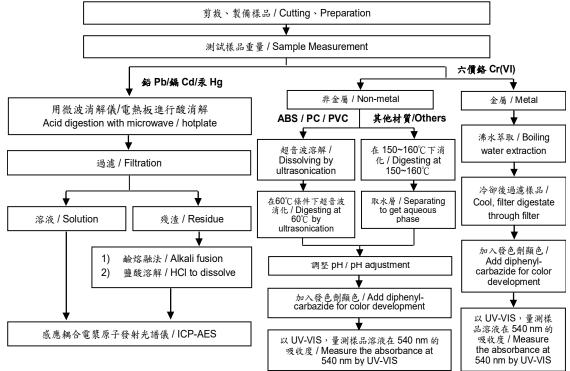
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#### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

- 測試人員:劉俊宏/ Technician : Jony Liu
- 測試負責人:張伯睿/ Supervisor: Ray Chang



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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.)



\*\* 報告結尾 (End of Report) \*\*

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