

測試報告

號碼(No.): CE/2017/10162 日

日期(Date): 2017/01/11

Test Report

俊益鋼鐵股份有限公司 JUNG YI STEEL CO., LTD. 台中市大里區工業九路九號 NO. 9, GONGYE 9TH RD., DALI DIST., TAICHUNG CITY 41280, 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)	:	俊益鋼鐵股份有限公司(JUNG YI STEEL CO., LTD.)
樣品名稱(Sample Description)	:	鋼棒-快削鋼12L14
樣品材質(Sample Material)	:	12L14
供應廠商(Supplier Company Name)	:	俊益鋼鐵股份有限公司(JUNG YI STEEL CO., LTD.)
電話(Tel)	:	886-4-24914678
傳真(Fax)	:	886-4-24914680
E-MAIL	:	jungyi.steel@gmail.com
原材料供應商(Vendor)	:	新日鐵住金株式會社(NIPPON STEEL & SUMITOMO METAL CORPORATION)
原產國(Country of Origin)	:	日本 (JAPAN)
樣品批號(Item/Lot No.)	:	2016-4Q-1230-1
收件日期(Sample Receiving Date)	:	2017/01/03
測試期間(Testing Period)	:	2017/01/03 TO 2017/01/11

测試需求(Test Requested): 依據客戶要求,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.)

测试方法(Test Method) : 請見下一頁 (Please refer to next pages).

测试结果(Test Results) : 請見下一頁 (Please refer to next pages).



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<u>測試結果(Test Results)</u>

測試部位(PART NAME)No.1 : 鐵灰色金屬 (IRON-GRAY 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),以感應耦合電漿 原子發射光譜儀檢測./ With reference	2	n. d.
鉛 / Lead (Pb)	mg/kg	to IEC 62321-5 (2013) and performed by ICP-AES.	2	2340
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4 (2013), 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.
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm²	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.

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/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 µg/cm². 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/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 µ g/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

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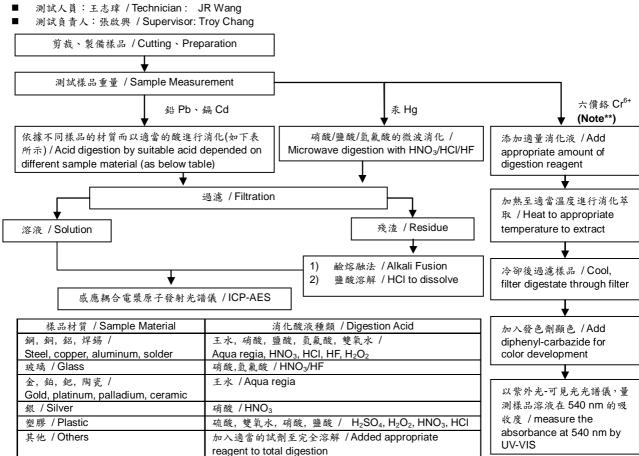
測試報告 號碼(No.): CE/2017/10162 日期(Date): 2017/01/11 頁數(Page): 3 of 4 Test Report 修益鋼鐵股份有限公司 JUNG YI STEEL CO., LTD.

台中市大里區工業九路九號

NO. 9, GONGYE 9TH RD., DALI DIST., TAICHUNG CITY 41280, TAIWAN (R. O. C.)

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^{6+} test method excluded)



Note** (For IEC 62321)

- (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,加熱至沸腾萃取. / For metallic material, add pure water and heat to boiling.

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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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