

# 崙強有限公司

## 承認書

客 戶： 研揚科技股份有限公司

料 號： M0UPHI0010

品 名： BRACKET.UPCR-HDMI

材質/顏色： SGCC

日 期： 112.08.01

客戶簽章： 崙強 RD 承認無誤







品質證明書  
TEST CERTIFICATE

中國鋼鐵股份有限公司  
CHINA STEEL CORPORATION  
中華民國高雄市小港區中鋼路1號  
1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG 81223  
TAIWAN, REPUBLIC OF CHINA  
TEL: (07) 802-1111 FAX: (07) 802-2511, (07) 801-9427  
E-mail: t21lmae@mail.csc.com.tw  
COMPANY REGISTRATION NUMBER: 30414175 0581

客戶名稱 CUSTOMER	美生金屬工業（股）有限公司 MASON METAL INDUSTRIAL CO., LTD.			產品名稱 PRODUCT		HDG-CGI COIL		
				發票號碼 INVOICE NO.	AH69854687	證明書編號 CERTIFICATE NO.	110602F0194-1	
規格名稱  SPEC.	JIS G3302 SGCC, ZINC COATING MASS:Z08, MINIMIZED SPANGLE, SKIN PASSED, CHROMATE FREE ANTI-FINGER PRINT TREATED; UNOILED, ZSBX, GP.			客戶編號 CUSTOMER NO.		23529497	中鋼訂單編號 CSC ORDER NO.	JA1178F
				交運日期 SHIPPING DATE		JUN 01, 2022	證明書日期 T/C ISSUE DATE	JUN 02, 2022
檢 驗 INSP.	CSC MILL INSPECTION	T/C	01		客戶訂單編號 CUST ORDER NO.	CG11104-03		

項目 ITEM NO.	產品序號 LABEL NO.	尺寸 DIMENSIONS			數量 QTY	質量 MASS kg	爐號 HEAT	鋼捲號碼 COIL NO.	試片編號 SAMPLE ID.	拉伸試驗 G. L. = 50		*1 mm 伸長 EL	*02 彎 曲 試驗	*05 硬 度	*11 單 點 雙	*12 單 點 上	*13 單 點 下	化學成分 CHEMICAL COMPOSITION %																	備註 REMARK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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註釋 NOTES	*01 拉伸試驗 TENSILE TEST	*13 下表面鍍鋅量 LOWER COAT (SINGLE)	1MPa = 1N/mm2
	*02 彎曲試驗 BEND TEST	*14 三點雙面平均量 TOTAL COAT (TRIPLE)	
	*05 硬度試驗 HARDNESS TEST		
	*11 單點雙面鍍鋅量 TOTAL COAT (SINGLE)		
	*12 上表面鍍鋅量 UPPER COAT (SINGLE)		
Tr: TRACE ELEMENT WITH ITS CONTENT CONFORMING TO THE SPECIFICATION REQUIREMENTS.			

SURVEYED BY	茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.	 冶金技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT



中國鋼鐵



品質證明書  
TEST CERTIFICATE

中國鋼鐵股份有限公司

CHINA STEEL CORPORATION

中華民國高雄市小港區中鋼路1號

1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG 81223

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E-mail: t211mae@mail.csc.com.tw

F0194-01

COMPANY REGISTRATION NUMBER: 30414175 0582

客戶名稱 CUSTOMER	美生金屬工業（股）有限公司 MASON METAL INDUSTRIAL CO., LTD.				產品名稱 PRODUCT		HDG-CGI COIL		
					發票號碼 INVOICE NO.		AH69854687	證明書編號 CERTIFICATE NO.	110602F0194-2
規格名稱  SPEC.	JIS G3302 SGCC, ZINC COATING MASS:Z08, MINIMIZED SPANGLE, SKIN PASSED, CHROMATE FREE ANTI-FINGER PRINT TREATED; UNOILED, ZSBX, GP.				客戶編號 CUSTOMER NO.		23529497	中鋼訂單編號 CSC ORDER NO.	JA1178F
					交運日期 SHIPPING DATE		JUN 01, 2022	證明書日期 T/C ISSUE DATE	JUN 02, 2022
檢 驗 INSP.	CSC MILL INSPECTION			T/C	01	客戶訂單編號 CUST ORDER NO.		CG11104-03	

項目 ITEM NO.	產品序號 LABEL NO.	尺寸 DIMENSIONS			數量 QTY	質量 MASS kg	爐號 HEAT	鋼捲號碼 COIL NO.	試片編號 SAMPLE ID.	拉伸試驗 *1 mm				*14 三點雙 g/m2	化學成分 CHEMICAL COMPOSITION %														備註 REMARK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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	Tr: TRACE ELEMENT WITH ITS CONTENT CONFORMING TO THE SPECIFICATION REQUIREMENTS.		

SURVEYED BY	茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.	Shen-Chin Huang 冶金技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT

# 無放射性污染證明書

編號：110602F0194

THE CERTIFICATE OF NON-RADIATIVE CONTAMINATION

0240

茲證明下述產品符合『放射性污染建築物事件防範及處理辦法』之規定，無放射性污染現象。

WE HEREBY CERTIFY THAT MATERIAL HAS BEEN TESTED AND PROVED TO BE FREE FROM RADIATIVE

CONTAMINATION IN ACCORDANCE WITH THE REGULATION OF ATOMIC ENERGY COUNCIL OF R.O.C.

產品名稱規格：HDG-CGI COIL

JIS G3302 SGCC, ZINC COATING MASS:Z08, MINIMIZED  
SPANGLE, SKIN PASSED, CHROMATE FREE ANTI-FINGER  
PRINT TREATED; UNOILED, ZSBX, GP.

批號與數量：(批號與品質證明書編號同)

批號(Lots)	數量(QTY)	質量(kg)	爐號(Heat No.)
110602F0194	2	21,195	5NM36 6V270

買受人名稱：美生金屬工業(股)有限公司

製造商名稱：中國鋼鐵股份有限公司

原子能委員會認可證明文號：鋼輻偵字第049號

輻射偵檢人員：蔡政利

輻射偵檢人員證書字號：鋼偵訓字第1040036號

品質管制主管：冶金技術處處長 黃勝俊

偵檢日期：自111年04月04日至111年04月06日

製造商負責人：董事長 翁朝棟

地址：高雄市小港區中鋼路1號

中華民國111年06月02日

無放射性污染證明專用章

公司名稱	中國鋼鐵股份有限公司
負責人	翁朝棟

副 聯

一、茲保證上開無放射性污染證明書影本，係經原製造商(經銷商)

同意影印，且各項記載資料均與正本無誤。

二、本證明書影本所列產品中之 噸(批號：)

確於 年 月 日售予( )

經銷商負責人：(簽章)

地址：

中華民國 年 月 日

註：本格式偵檢人員及品質管制主管欄只列姓名即可，不必簽章。

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)

高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

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 the applicant as) :

送樣廠商(Sample Submitted By) : 中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)  
樣品名稱(Sample Name) : 熱浸鍍鋅產品(HOT-DIP GALVANIZED PRODUCTS)  
樣品型號(Style/Item No.) : 熱浸鍍鋅耐指紋鋼捲(HOT-DIP GALVANIZED COILS (COATING AFP))

收件日(Sample Receiving Date) : 19-May-2022  
測試期間(Testing Period) : 19-May-2022 to 02-Jun-2022

測試需求(Test Requested) : 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

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

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

  
報告簽署人/張伯睿 博士/部經理  
Ray Chang, Ph.D./ Department Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
化學實驗室-高雄/Chemical Laboratory-Kaohsiung



PIN CODE: 4E3EB931

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中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)

高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

## 測試部位敘述 (Test Part Description)

No.1 : 銀色金屬 (SILVER COLORED METAL)

## 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	依據IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(According to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	依據IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(According to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2)	依據IEC 62321-7-1: 2015，以紫外光-可見光分光光度計分析。(According to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm <sup>2</sup>	0.1	n.d.	-
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015自訂方法，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015 in house method, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015自訂方法，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015 in house method, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	依據IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(According to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000

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## 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. (#2) =
  - a. 當六價鉻結果大於 $0.13 \mu\text{g}/\text{cm}^2$ ，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  $0.13 \mu\text{g}/\text{cm}^2$ . The sample coating is considered to contain Cr(VI).)
  - b. 當六價鉻結果為n.d. (濃度小於 $0.10 \mu\text{g}/\text{cm}^2$ )，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  $0.10 \mu\text{g}/\text{cm}^2$ ). The coating is considered a non-Cr(VI) based coating)
  - c. 當六價鉻結果介於  $0.10$  及  $0.13 \mu\text{g}/\text{cm}^2$  時，無法確定塗層是否含有六價鉻。(The result between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  is considered to be inconclusive - unavoidable coating variations may influence the determination.)
6. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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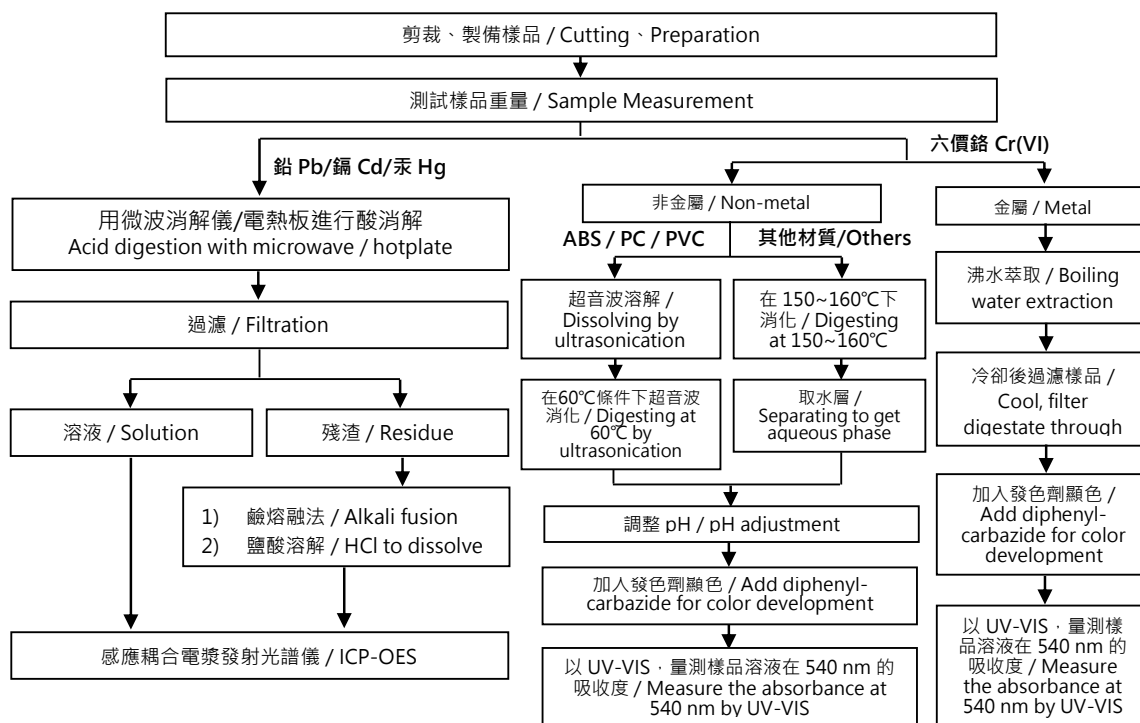
中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)

高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

## 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)

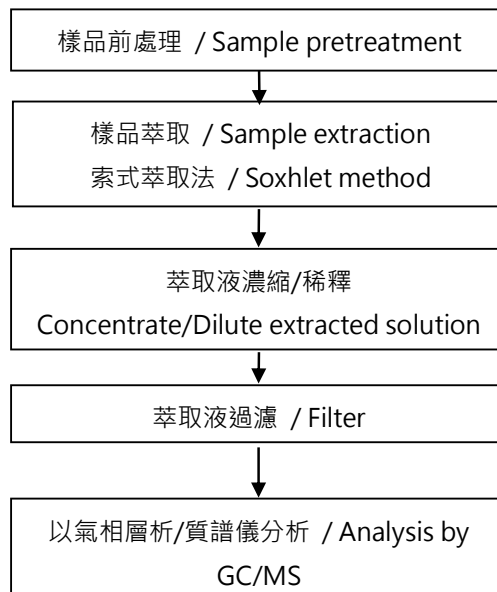
These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr<sup>6+</sup> test method excluded)

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## 多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART



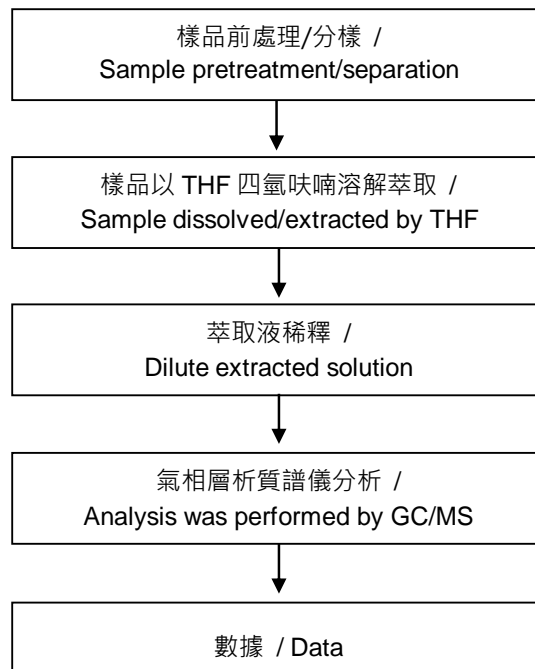
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## 可塑劑分析流程圖 / Analytical flow chart of phthalate content

【測試方法/Test method: IEC 62321-8】



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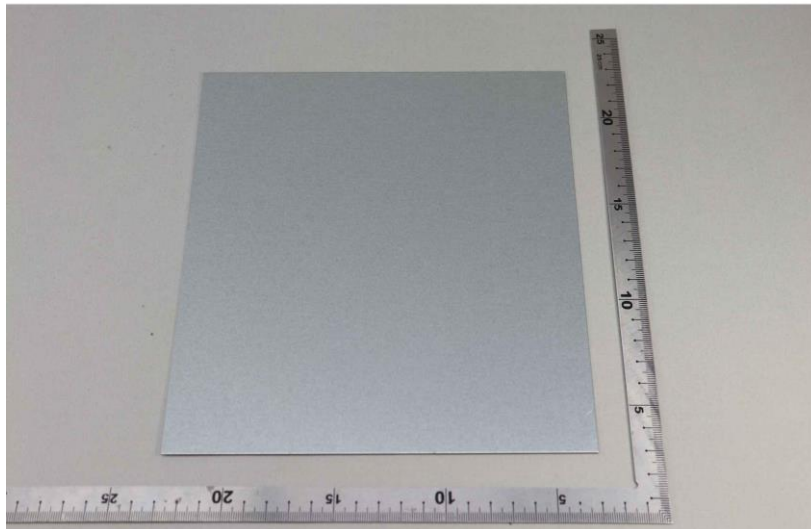
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

### EKR22501256



\*\* 報告結尾 (End of Report) \*\*

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# 不使用限用物質聲明書

## Non-use of restricted substances statement

### 請填寫相關資訊

Please fill in the relevant information :

公司名稱 Company name : 崙強有限公司

公司負責人 Company Responsible Person : 林宏榮

立書人 Declarant : 林育舟

立書人職稱 Declarant's Title : 業務

本聲明書生效日期 Effective Date of this Declaration : 110/05/19



### 請勾選本聲明書適用範圍

Please Select the Scope of this Declaration :

☒ 提供給研揚的全部產品 All Products provided to AAEON

☐ 研揚料號 AAEON Part Number :

☐ 原廠料號 Manufacturer Part Number :



崙強有限公司 (填寫公司名稱) 響應全球綠色環保法規或其他法律，保證如下事項：

Lun Chiang Co., Ltd. (Fill in Company name) Response to global green environmental protection regulations or other laws, guarantee the following matters:

☒ 一、產品符合歐盟 RoHS (2011/65/EU & (EU) 2015/863) 規範。

The product complies with EU RoHS (2011/65/EU & (EU) 2015/863) norms.

- i. 當作為包材類的材料，也須符合歐盟包裝指令(94/62/EC) 與修訂指令(2013/2/EU)  
When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)  
Note: Pb+Cd+Hg+Cr<sup>6+</sup> <100 ppm
- ii. 若為電池零件，也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU  
For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)  
Note: Cd<20ppm; Hg <5ppm

管制文件，不可任意複製/更改

Regulatory documents that can not be arbitrarily Copy / Change



## 不使用限用物質聲明書

**Non-use of restricted substances statement**

QD4-089 Rev.B4

- ☒ 二、產品符合衝突金屬(Conflict Metal)規範，並確認銷售產品若有含錫、鉭、鎢、金這四種礦產，來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin、tantalum、tungsten、gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo、Uganda、San、Tanzania、Rwanda、Angola, Zambia, Burundi.

- ☒ 三、產品符合歐盟最新REACH (EC 1907/2006) 規範。  
高關注物質(SVHC)，不超過 0.1%上限，以重量計算。  
備註：請參照歐盟化學總署(ECHA)網站，最新的高關注物質清單。

This product complies with latest EU REACH (EC 1907/2006) norms.

The SVHC, are not over 0.1% threshold by weight.

*Note: Please check ECHA website for latest SVHC list:*

*<https://echa.europa.eu/candidate-list-table>*

- ☒ 四、產品符合美國環保署 TSCA 毒性物質管理法第 6(h)節五項 PBT 毒性物質管理要求  
This product complies with USA EPA Toxic Substances Control Act (TSCA) Persistent, Bioaccumulative, and Toxic (PBT) 5 Chemicals requirement under Section 6(h)

立書人提供給研揚的所有文件（含測試報告、聲明書、調查表等文件），均正確屬實並且完整。

All documents (including test reports, declarations, survey forms, etc.) provided by Declarant to AAEON shall be correct, true and complete.