

寶 號
CUSTOMER

科普倫-駱駝集團

AEC-Q200



承 認 書

SPECIFICATION FOR APPROVAL

品名

PRODUCT NAME K5B S5HQ 5x4.6x5.5-2.5Ts-M-T

客戶料號

CUSTOMER PART NO. _____

批號

SAMPLE NO. _____

日期

DATE. 2023/06/29

Customer Approved Status 客戶承認範圍

FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
陳愛欣	吳明珠	吳炳勳



KING CORE ELECTRONICS INC.

NO 269, Nanfong Rd., Pingjhen City, Taoyuan County Taiwan

Tel: 886-3-4698855 Fax: 886-4691395

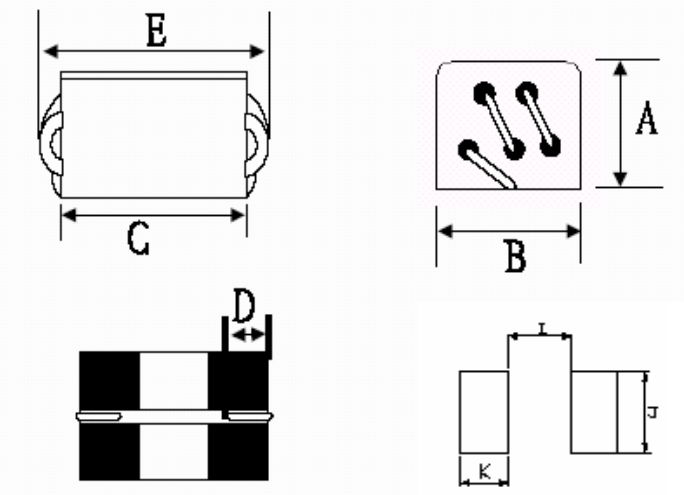
Website: [http:// www.kingcore.com.tw](http://www.kingcore.com.tw)

E-mail: kc@mail.kingcore.com.tw

修訂履歷 REVISION RESUME

日期 DATE	版次 VERSION	修訂目的 PURPOSE	修訂內容概述 REVISION DESCRIPTION	備註 REMARK
2023/06/29	A	首次送承認書 INITIAL RELEASE		
製作 DRAWN BY: 陳雯欣		確認 CHECKED BY: 吳明珠		承認 APPROVED BY: 吳炳勳

SPECIFICATION FOR APPROVAL

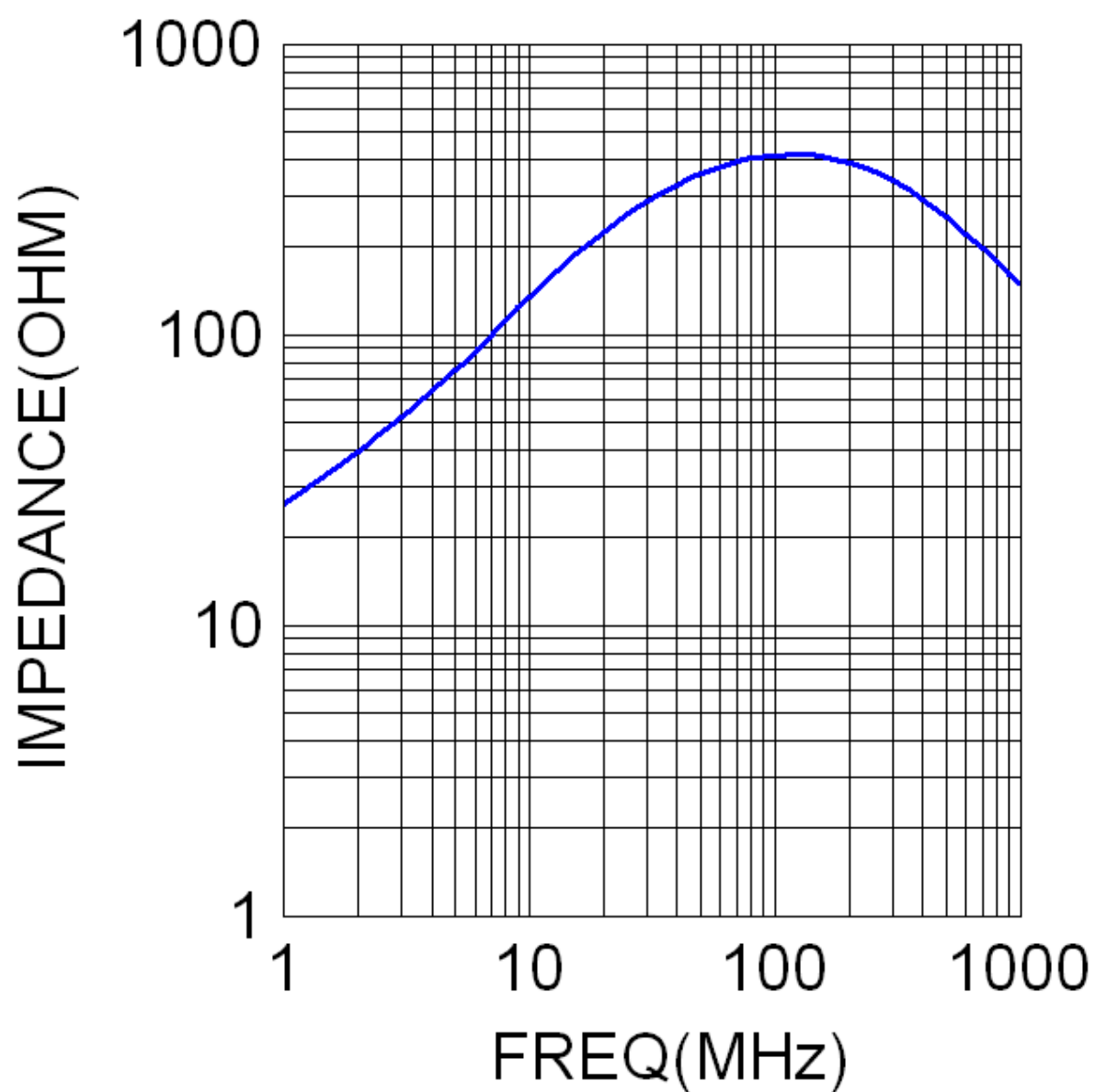
CUSTOMER:	科普倫-駱駝集團	CUST.P/N
ORDERING CODE:	K5B S5HQ 5x4.6x5.5-2.5Ts-M-T	K.C.P/N:
(1) SHAPE : 		A 4.6±0.5 mm
		B 5.0±0.5 mm
		C 5.5±0.5 mm
		D 2.0 max mm
		E 8.0 max mm
		I 2 REF mm
		J 6.5 REF mm
		K 2.5 REF mm
(2) ELECTRICAL REQUIREMENTS: $Z_1 = 266 \text{ TYP. OHM AT } 25 \text{ MHz}$ $Z_2 = 405 \pm 25\% \text{ OHM AT } 100 \text{ MHz}$ IDC: $\Delta T 40^\circ\text{C} : 5\text{A(max)}$		(3) TEST CONDITIONS: 1 IMPEDANCE ANALYZER: Agilent E4991A TEST FIXTURE: HP16092A 2. WIRE: $\Phi 0.5 \text{ T.C.Wx2.5Ts}$
(4) PACKING <input type="checkbox"/> IN BULK <input type="checkbox"/> VACUUM <input type="checkbox"/> INSERTION PCS/BAG* BAGS/INNER BOX* BOXES/CARTON = PCS PCS/PLATE* PLATES/CARTON= PCS PCS/TRAY* TRAYS/CARTON= PCS 1000 PCS/REEL 2 REELS/INNER BOX* 4 BOXES/CARTON = 8000 PCS		(5) APPEARANCE (1) AREA OF BREAK : < 1 mm ² (2) SUM OF BREAKING AREA : < 2 mm ² (3) DEPTH OF BREAK : < 0.8 mm It is considered as a normal condition that the surface of core covers with ferrite powder.
(6) REMARK:		Approved by 吳炳勳
		Checked by 吳明珠
		Drawn by 陳雯欣 2023/6/29
		DWG.NO. 20236002A

ER011C

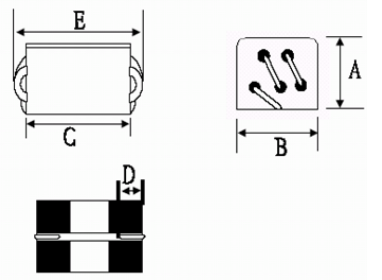
TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	科普倫-駱駝集團			CUST. P/N		
ORDERING CODE	<i>K5B S5HQ 5x4.6x5.5-2.5Ts-M-T</i>			K.C. P/N		
TEMP.	21 °C	RH	65 %	DWG.NO.	20236001A	
WIRE	0.5 T.C.W	WINDING	2.5 Ts	Q'TY	5PCS	
Test Instruments						
Meas. Item.	<i>Z (OHM)</i>	<i>Z (OHM)</i>	<i>A mm</i>	<i>B mm</i>	<i>C mm</i>	
Specification	266 TYP.	405±25%	4.6±0.5	5.0±0.5	5.5±0.5	
Test Freq.	25 MHz	100 MHz				
sample#1	283	416	4.71	4.82	5.50	
sample#2	265	404	4.74	4.83	5.49	
sample#3	271	404	4.68	4.80	5.45	
sample#4	268	412	4.76	4.82	5.48	
sample#5	268	407	4.75	4.82	5.53	
sample#6						
sample#7						
sample#8						
sample#9						
sample#10						
\overline{X}	270.9	408.6	4.728	4.818	5.490	
R	18.5	12	0.08	0.03	0.08	
REMARK:				Approved by: 吳炳勳		
				Checked by: 吳明珠		
				Drawn by: 陳雯欣		

K5B S5HQ 5x4.6x5.5-2.5Ts-M-T



TEST DATA

客戶/料號	科普倫-駱駝集團						鈞寶料號							
品 名	K5B S5HQ 5x4.6x5.5-2.5Ts-M-T						生產批號							
測試儀器	Agilent E4991A						粉料批號							
繞線條件	Φ0.5 T.C.Wx2.5Ts						出貨數量/總數			/ 10				
溫 度℃	21		濕 度 %		66%		出貨日期/檢驗代號			/ 2023/6/29				
	Z(Ω)						尺 寸(單位:m/m)							
項目	25MHz	100MHz								A	B	C	D	E
Spec	266	405								4.6	5	5.5	2	8
公差	TYP.	±25%								±0.5	±0.5	±0.5	max	max
1	283.0	377.8								4.71	4.82	5.50	1.59	7.59
2	264.5	404.0								4.74	4.83	5.49	1.57	7.43
3	271.0	404.4								4.68	4.80	5.45	1.28	7.37
4	268.2	411.6								4.76	4.82	5.48	1.27	7.26
5	267.6	407.0								4.75	4.82	5.53	1.48	7.22
6	272.5	416.1								4.73	4.83	5.46	1.51	7.15
7	265.9	408.4								4.75	4.85	5.45	1.31	7.35
8	263.9	405.9								4.66	4.83	5.41	1.29	7.25
9	260.7	399.7								4.72	4.84	5.46	1.45	7.12
10	270.0	395.5								4.83	4.85	5.46	1.44	7.40
\bar{X}	268.7	403.0								4.73	4.83	5.47	1.42	7.31
R	22	38								0.17	0.05	0.12	0.32	0.47
SPEC. 判定	OK	OK								OK	OK	OK	OK	OK
Cpk		3.133												
尺寸.特性 抽樣標準依據:MIL-STD-105E-S3 AQL=0.4														
外觀 抽樣標準依據:MIL-STD-105E-I AQL=0.25														
尺寸特性	抽樣數:					外觀	抽樣數:					判 定		
	AC= RE=						<input checked="" type="checkbox"/> 無粉末沾 <input checked="" type="checkbox"/> 無刮痕破 <input checked="" type="checkbox"/> 無組件髒					OK		
HSF 檢測	<input type="checkbox"/> 合格 <input checked="" type="checkbox"/> 此系列當月第一批檢測合格 <input type="checkbox"/> 不合格 過量元素: 含量:													
備 註														
承認					檢驗	陳雯欣2023/6/29								



KING CORE ELECTRONICS INC.

Tel: 886-3-4698855 Fax: 886-3-4691395

Website: www.kingcore.com.tw

e-mail: kingcore@ms16.hinet.net

Reliability Test

No	Item	Specification	Test Method
1	High Temperature Exposure (Storage)	MIL-STD202 Method 108	Temperature: 105°C/Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs
2	Temperature Cycling	JESD22 Method JA-104	Total cycles: 1000 cycles Temperature Cycling Test Conditions: -40 to +105°C -40°C Soak Mode Condition: 30minutes 105°C Soak Mode Condition: 30minutes Measured after exposure in the room condition for 24hrs
3	Humidity	MIL-STD-202 Method 103	Temperature: 85±2°C Relative Humidity/Time: 85%RH./1000hrs Measured after exposure in the room condition for 24hrs
4	Low Temperature		Temperature: -40°C Time: 1000hrs Measured after exposure in the room condition for 24hrs
Specification : Appearance: Ferrite shall not be damaged. Impedance : Within ±30% of the initial value.			



測試報告

Test Report

號碼(No.): ETR23205217

日期(Date): 24-Feb-2023

頁數(Page): 1 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, 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 the applicant as) :

送樣廠商(Sample Submitted By) : 鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

樣品名稱(Sample Name) : FERRITE CORE

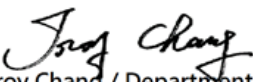
樣品型號(Style/Item No.) : K5B

收件日(Sample Receiving Date) : 18-Feb-2023

測試期間(Testing Period) : 18-Feb-2023 to 24-Feb-2023

測試需求(Test Requested) : (1) 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) : (2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)
請參閱下一頁 (Please refer to following pages.)


Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: C04EC4A4

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測試報告

Test Report

號碼(No.): ETR23205217 日期(Date): 24-Feb-2023 頁數(Page): 2 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)
桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

測試部位敘述 (Test Part Description)
No.1 : FERRITE CORE

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, 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.

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桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, 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.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.

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鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	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.)	mg/kg	50	n.d.
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考US EPA 3550C: 2007 · 以液相層析串聯質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.)	mg/kg	10	n.d.
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	10	n.d.
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
砷 (As) (Arsenic (As)) (CAS No.: 7440-38-2)		mg/kg	2	n.d.
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)		mg/kg	2	n.d.

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. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

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測試報告

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鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

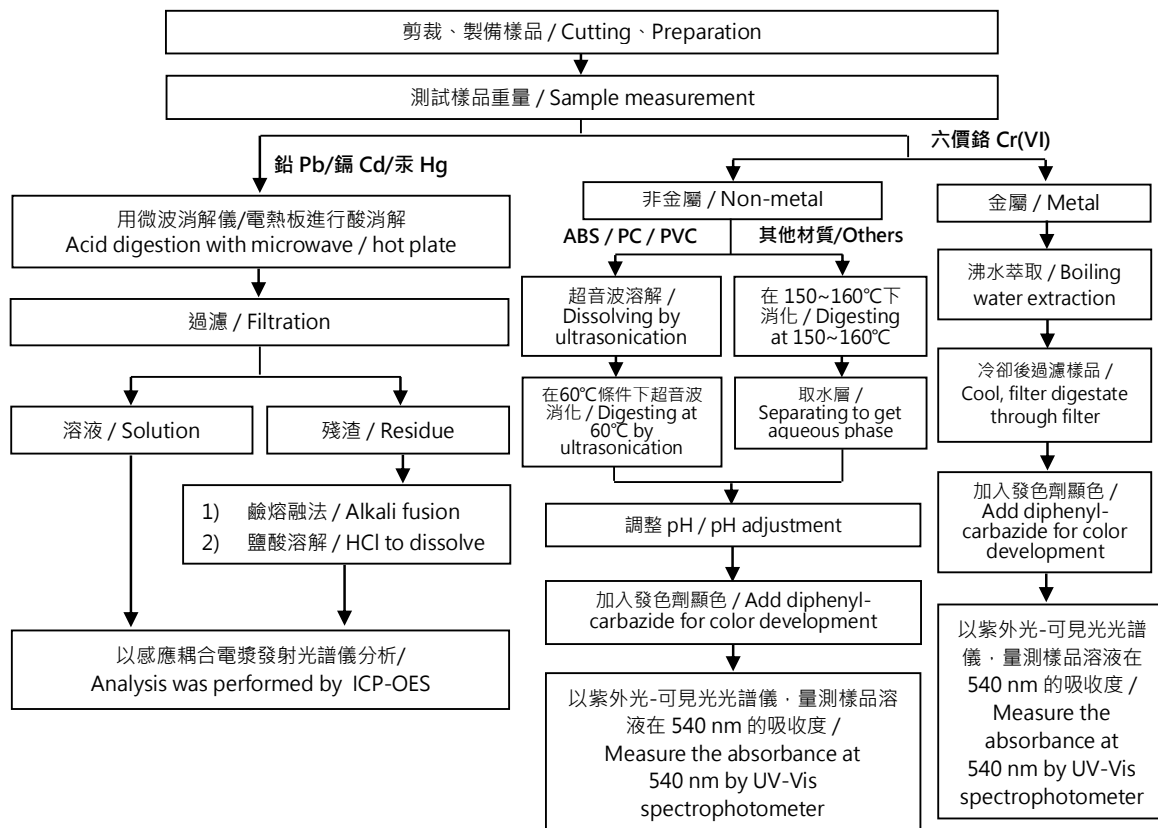
桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

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.

(Cr⁶⁺ test method excluded)



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測試報告

Test Report

號碼(No.): ETR23205217

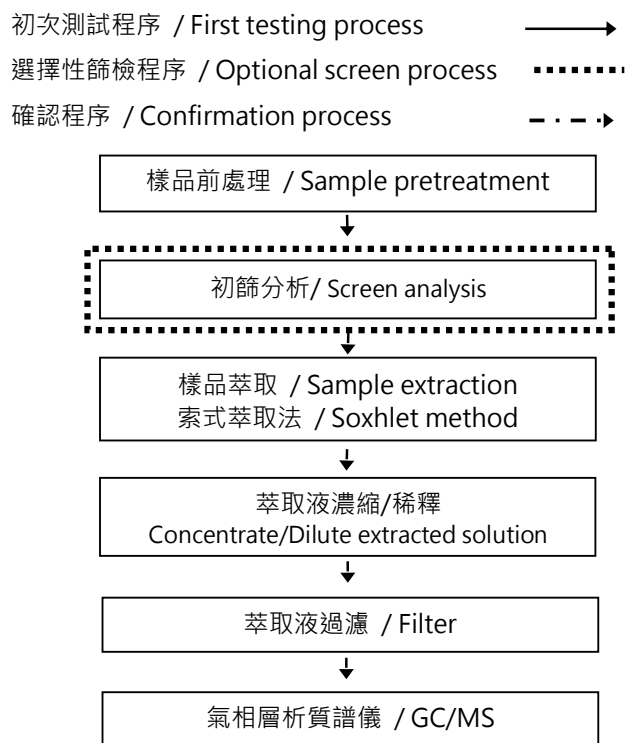
日期(Date): 24-Feb-2023

頁數(Page): 6 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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測試報告

Test Report

號碼(No.): ETR23205217

日期(Date): 24-Feb-2023

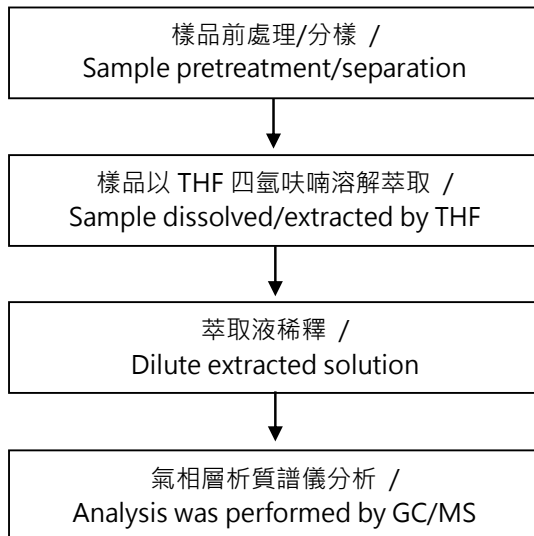
頁數(Page): 7 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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測試報告

Test Report

號碼(No.): ETR23205217

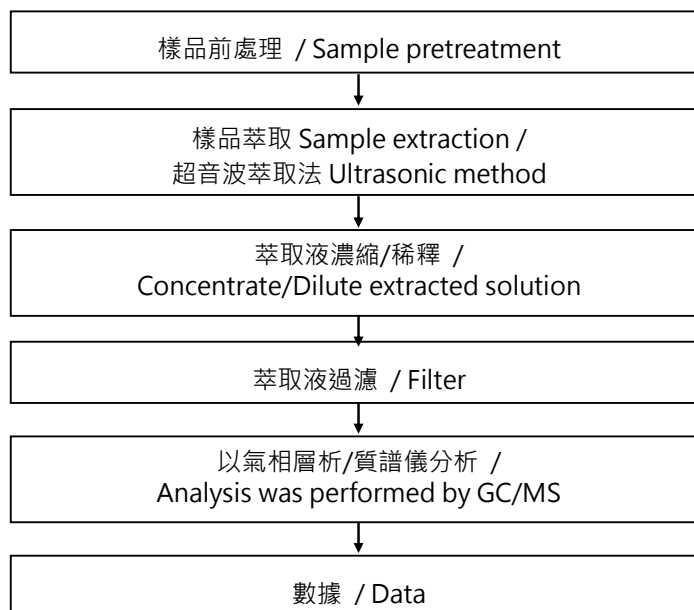
日期(Date): 24-Feb-2023

頁數(Page): 8 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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測試報告

Test Report

號碼(No.): ETR23205217

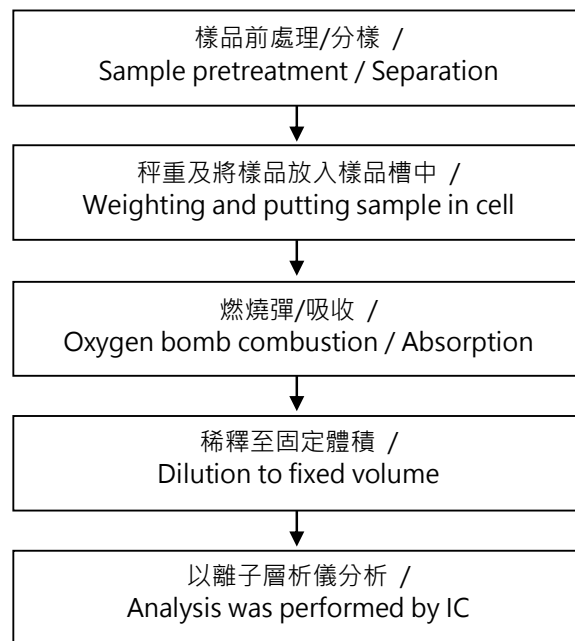
日期(Date): 24-Feb-2023

頁數(Page): 9 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

鹵素分析流程圖 / Analytical flow chart - Halogen



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測試報告

Test Report

號碼(No.): ETR23205217

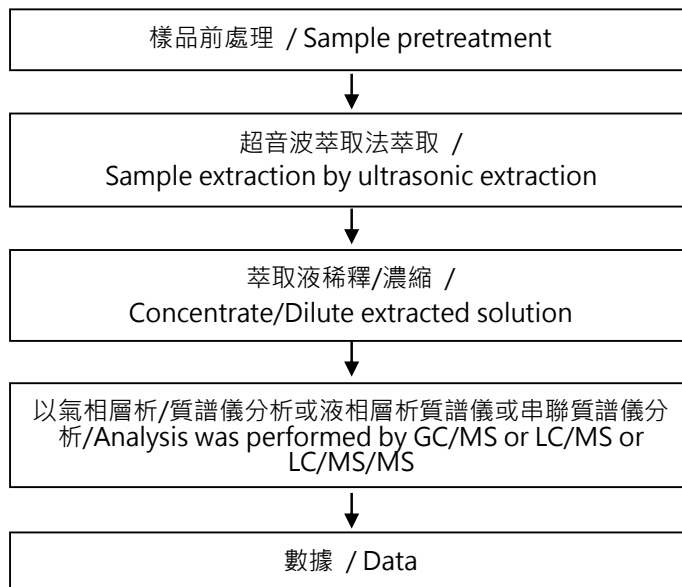
日期(Date): 24-Feb-2023

頁數(Page): 10 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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測試報告

Test Report

號碼(No.): ETR23205217

日期(Date): 24-Feb-2023

頁數(Page): 11 of 12

鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

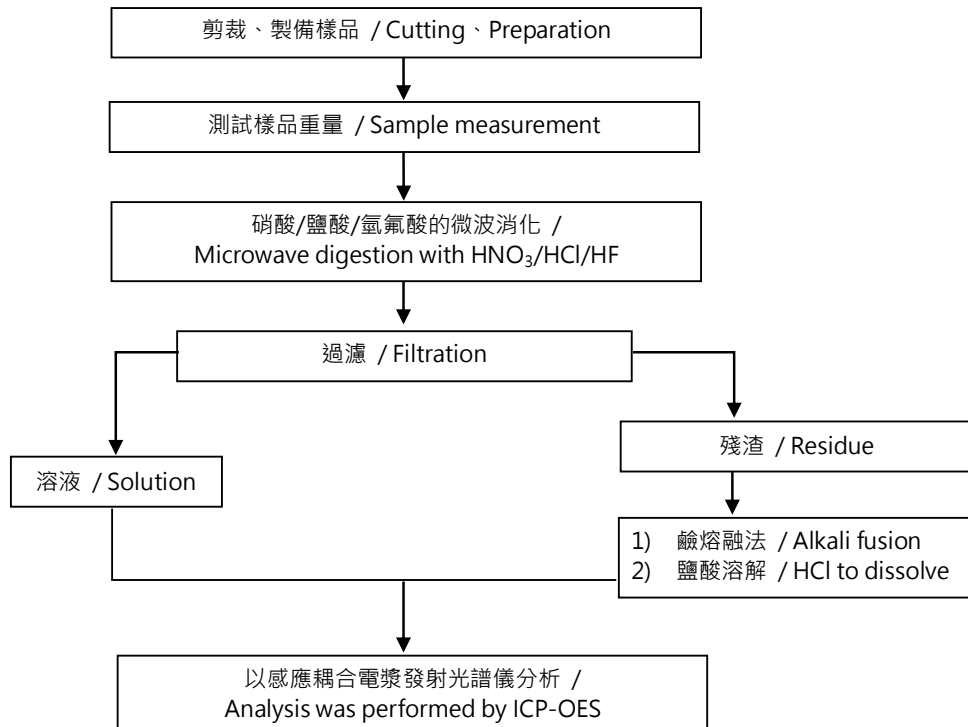
桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

元素(含重金屬)分析流程圖 / Analytical flow chart of elements (Heavy metal included)

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.

【參考方法/Reference method：US EPA 3051A、US EPA 3052】



* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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測試報告

Test Report

號碼(No.): ETR23205217

日期(Date): 24-Feb-2023

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鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)

桃園市平鎮區南豐路269號(平鎮工業區) (NO. 269, NANFONG RD., PINGJHEN DIST., TAOYUAN CITY 324, TAIWAN)

* 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.)

ETR23205217



** 報告結尾 (End of Report) **

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測試報告

Test Report

號碼(No.): ETR22B04781

日期(Date): 07-Dec-2022

頁數(Page): 1 of 15

惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, 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 the applicant as) :

送樣廠商(Sample Submitted By) : 惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

樣品名稱(Sample Name) : HOT DIPPED Tin-COATED COPPER WIRE (鍍錫銅線)

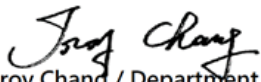
收件日(Sample Receiving Date) : 30-Nov-2022

測試期間(Testing Period) : 30-Nov-2022 to 07-Dec-2022

測試需求(Test Requested) : (1) 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).)
(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

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

結 論(Conclusion) : (1) 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.)


Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 364CBE91

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測試報告

Test Report

號碼(No.): ETR22B04781

日期(Date): 07-Dec-2022

頁數(Page): 2 of 15

惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

測試部位敘述 (Test Part Description)

- No.1 : 銀色金屬線鍍層 (PLATING LAYER OF SILVER COLORED METAL WIRE)
No.2 : 銀色金屬線底材 (BASE MATERIAL OF SILVER COLORED METAL WIRE)
No.3 : 銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))

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	No.2	No.3	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	酸洗脫鍍層，參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	---	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	67.5	---	---	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	酸洗脫鍍層，參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	---	1000
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference 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)	參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	---	1000

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測試報告

Test Report

號碼(No.): ETR22B04781

日期(Date): 07-Dec-2022

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惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
六價鉻 (Hexavalent Chromium) Cr(VI) (CAS No.: 18540-29-9) (#2)	參考IEC 62321-7-1: 2015 · 以紫外光-可見光分光光度計分析。 (With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm ²	0.1	n.d.	n.d.	---	-
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, 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
一溴聯苯醚 (Monobromodiphenyl ether)		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

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測試報告

Test Report

號碼(No.): ETR22B04781

日期(Date): 07-Dec-2022

頁數(Page): 4 of 15

惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	µg/m ²	0.5	n.d.	---	---	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		µg/m ²	0.5	n.d.	---	---	-
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	---	n.d.	---	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)		mg/kg	0.01	---	n.d.	---	-
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference 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)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	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)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	---	---	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	---	---	n.d.	1000

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測試報告

Test Report

號碼(No.): ETR22B04781

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惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)			限值 (Limit)
				No.1	No.2	No.3	
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	參考IEC 62321-8: 2017 · 以氣相 層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	---	---	n.d.	-
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)	參考IEC 62321-8: 2017 · 以氣相 層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	---	---	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n- octyl phthalate (DNOP)) (CAS No.: 117-84-0)	參考IEC 62321-8: 2017 · 以氣相 層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	---	---	n.d.	-
氟 (F) (Fluorine (F)) (CAS No.: 14762- 94-8)	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.)	mg/kg	50	---	---	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	---	---	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	---	---	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362- 44-8)		mg/kg	50	---	---	n.d.	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3050B: 1996 · 以感 應耦合電漿發射光譜儀分析。 (With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	---	---	n.d.	-

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桃園市中壢區自強七路10號 (NO. 10, ZIQUANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

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. "---" = Not Conducted (未測試項目)
6. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including) :
CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
7. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including) :
CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.
8. (#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.)
9. 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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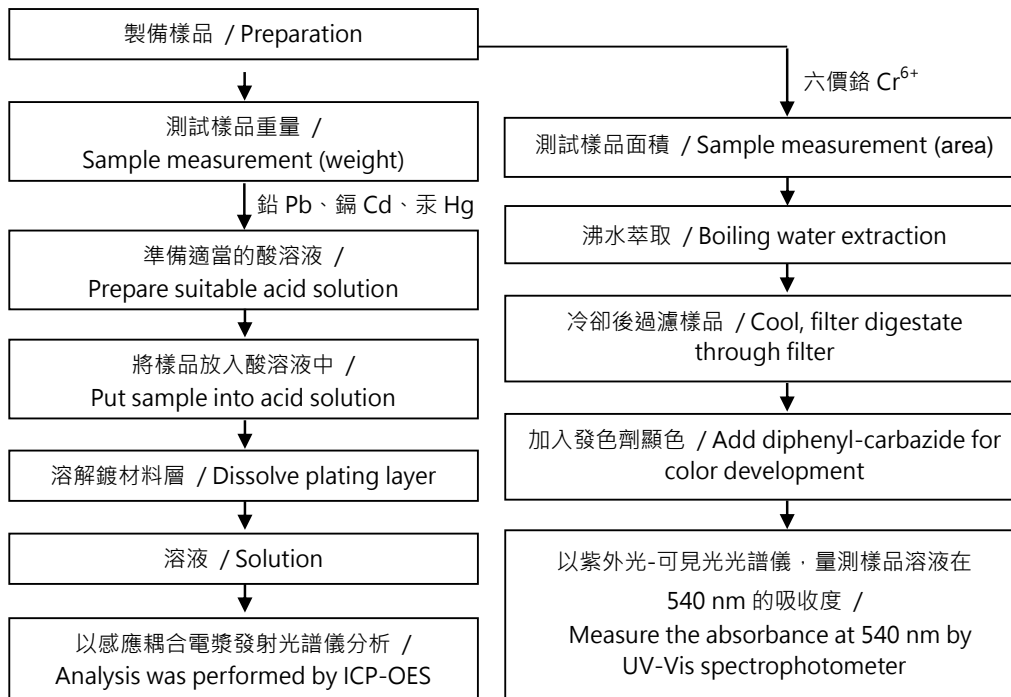
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惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

鍍層重金屬測試流程圖 / Flow chart of stripping method for metal analysis

根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



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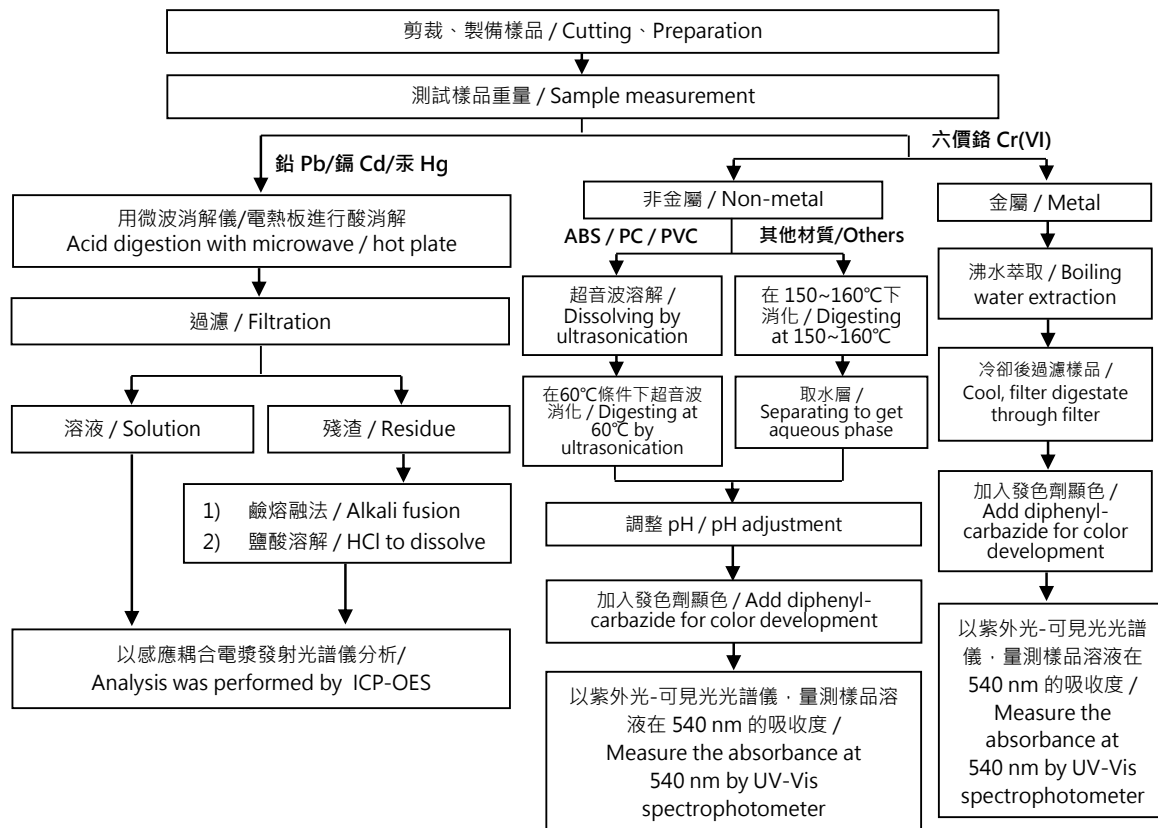
惠豐特殊電線股份有限公司 (WELL FORE SPECIAL WIRE CORPORATION)

桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

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.
(Cr⁶⁺ test method excluded)



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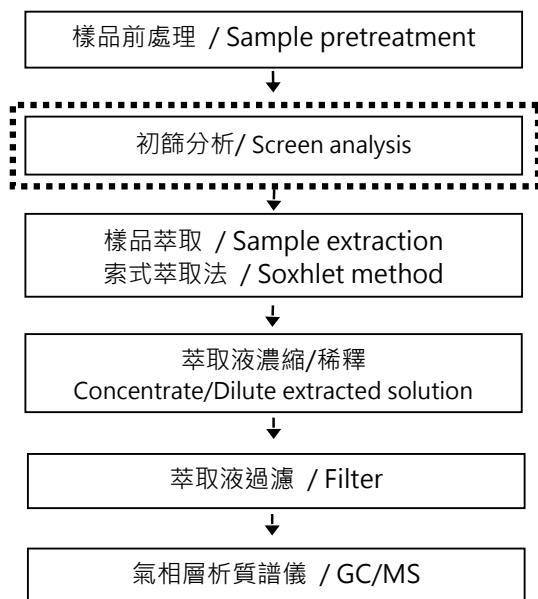
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs

初次測試程序 / First testing process —————→
 選擇性篩檢程序 / Optional screen process→
 確認程序 / Confirmation process - - - - -→



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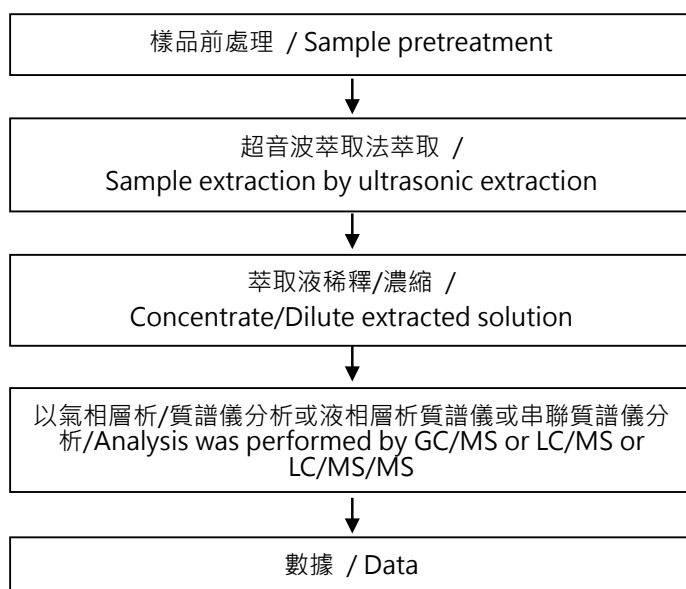
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全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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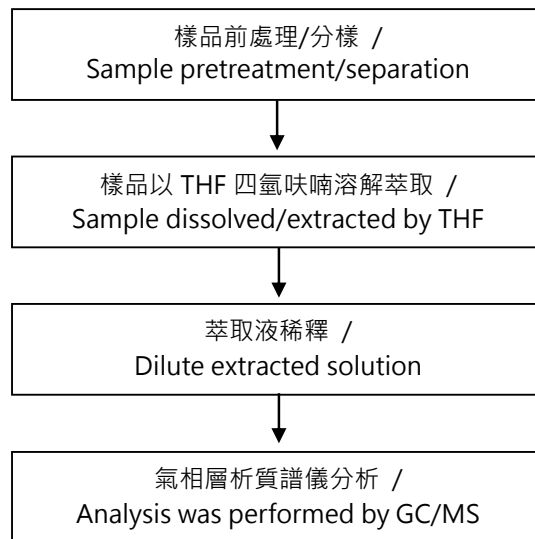
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桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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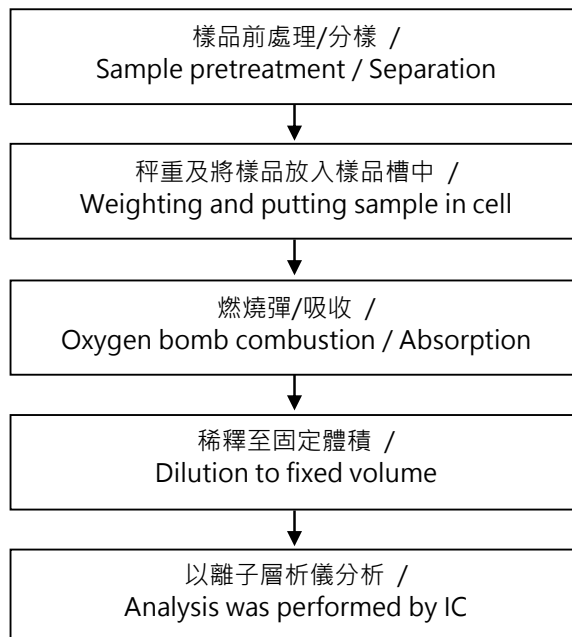
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桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

鹵素分析流程圖 / Analytical flow chart - Halogen



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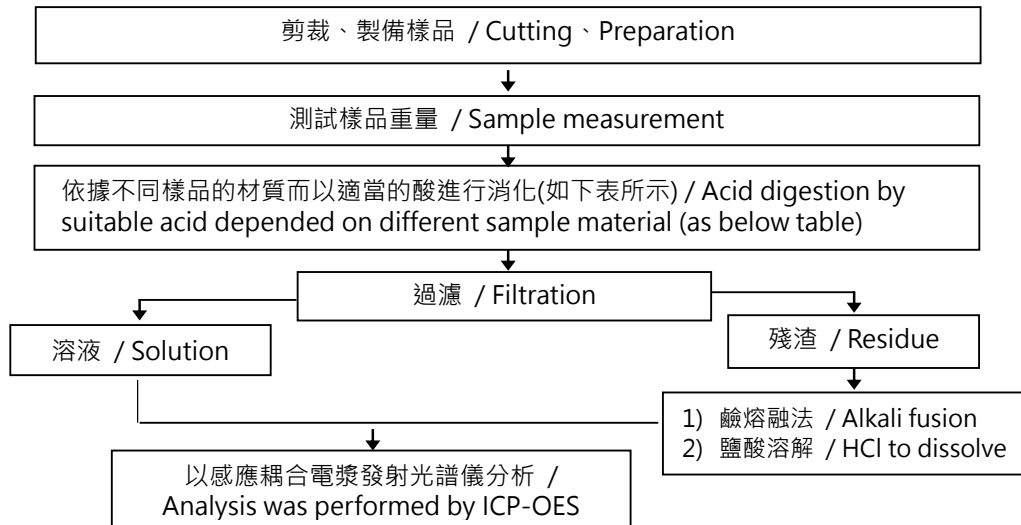
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元素以 ICP-OES 分析的消化流程圖

(Flow chart of digestion for the elements analysis performed by ICP-OES)

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.



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	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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桃園市中壢區自強七路10號 (NO. 10, ZIQIANG 7TH RD., ZHONGLI DIST., TAOYUAN CITY, TAIWAN)

* 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.)

ETR22B04781 NO.1



ETR22B04781 NO.2



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ETR22B04781 NO.3



** 報告結尾 (End of Report) **

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測試報告

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台灣納美仕股份有限公司 (NAMICS TAIWAN CO., LTD.)

苗栗縣銅鑼鄉銅科一路3號 (NO. 3, TONGKE 1ST RD., TONGLUO TOWNSHIP, MIAOLI COUNTY 36645, 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 the applicant as) :

送樣廠商(Sample Submitted By) : 台灣納美仕股份有限公司 (NAMICS TAIWAN CO., LTD.)

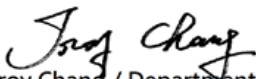
樣品名稱(Sample Name) : DP4303W

收件日(Sample Receiving Date) : 06-May-2022

測試期間(Testing Period) : 06-May-2022 to 13-May-2022

測試需求(Test Requested) : (1) 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) : (2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)
請參閱下一頁 (Please refer to following pages.)


Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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測試部位敘述 (Test Part Description)

No.1 : 暗綠色膏狀 (DARK GREEN PASTE)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, 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.

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, 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.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.
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.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.
鄰苯二甲酸二正戊酯 (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)		mg/kg	50	n.d.
鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α - HBCDD, β - HBCDD, γ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	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.)	mg/kg	50	n.d.
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3050B: 1996 · 以感應耦合電漿發射光譜儀分析。(With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.

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. 氟、氯、溴、碘：丙酮萃取前處理。

Fluorine, Chlorine、Bromine, Iodine : Pretreatment by acetone extraction.

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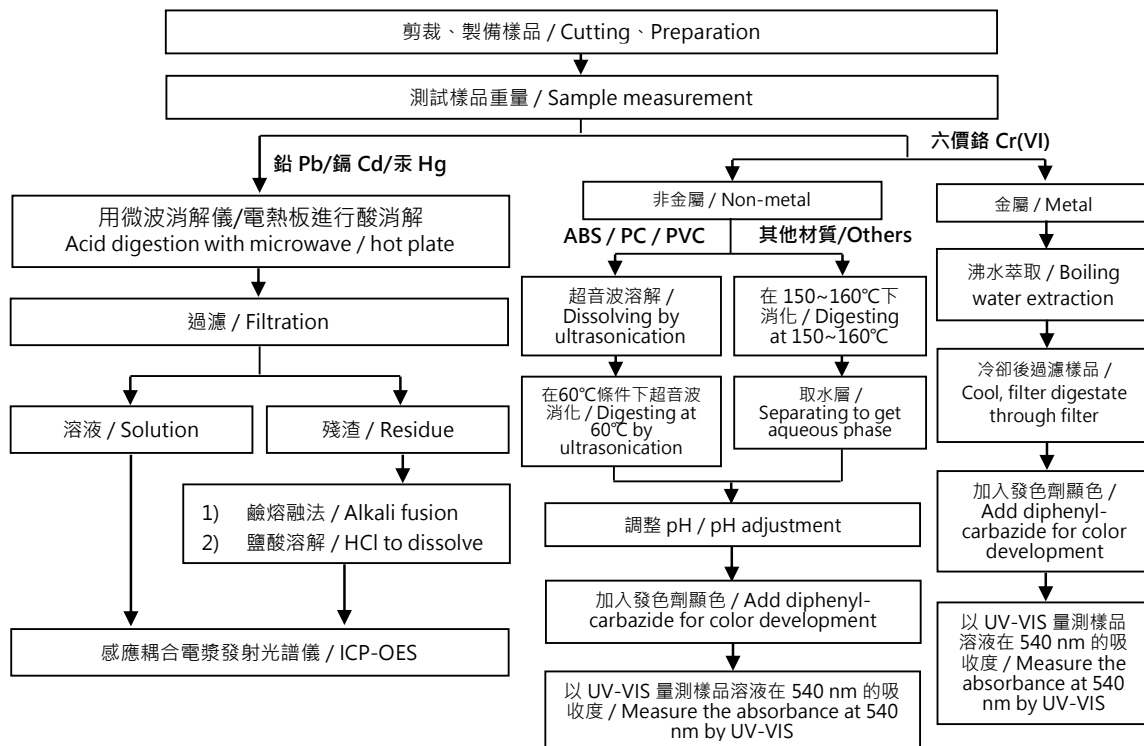
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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.

(Cr⁶⁺ test method excluded)

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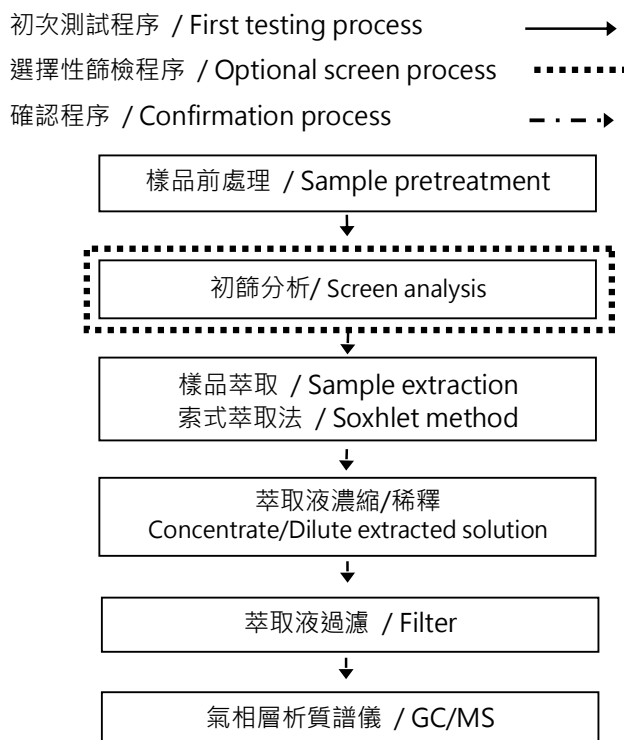
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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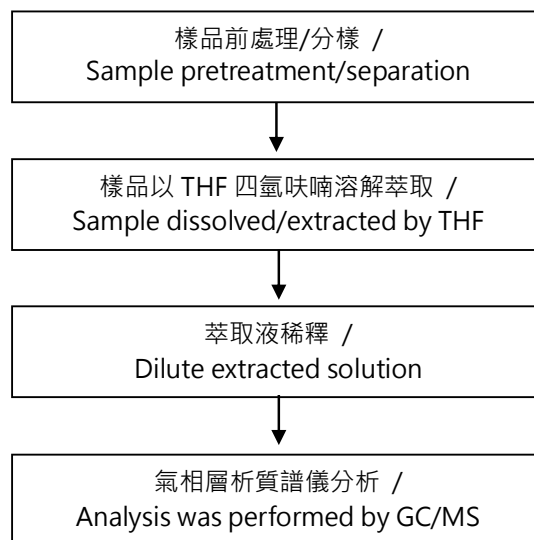
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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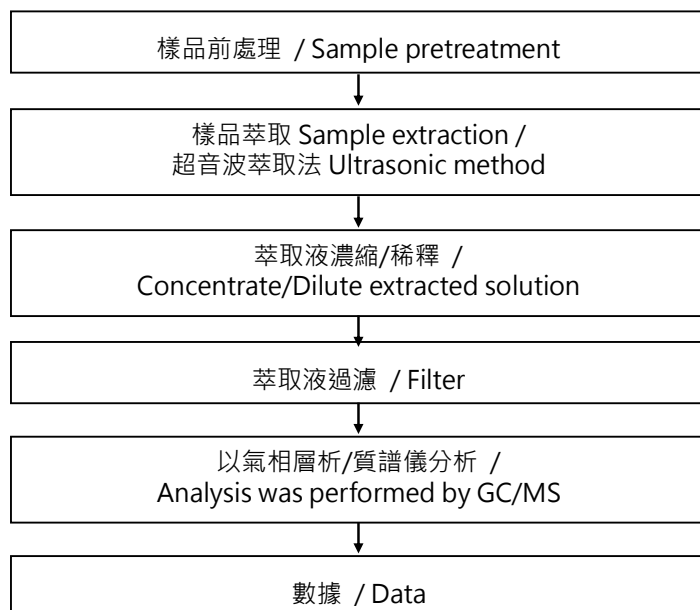
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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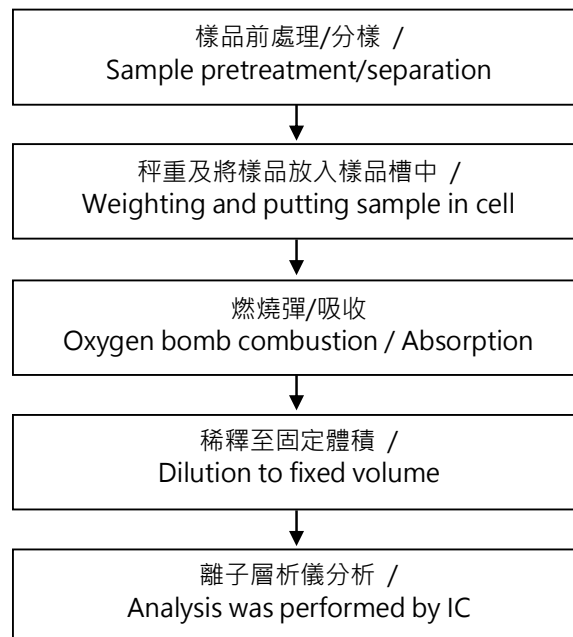
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鹵素分析流程圖 / Analytical flow chart - Halogen



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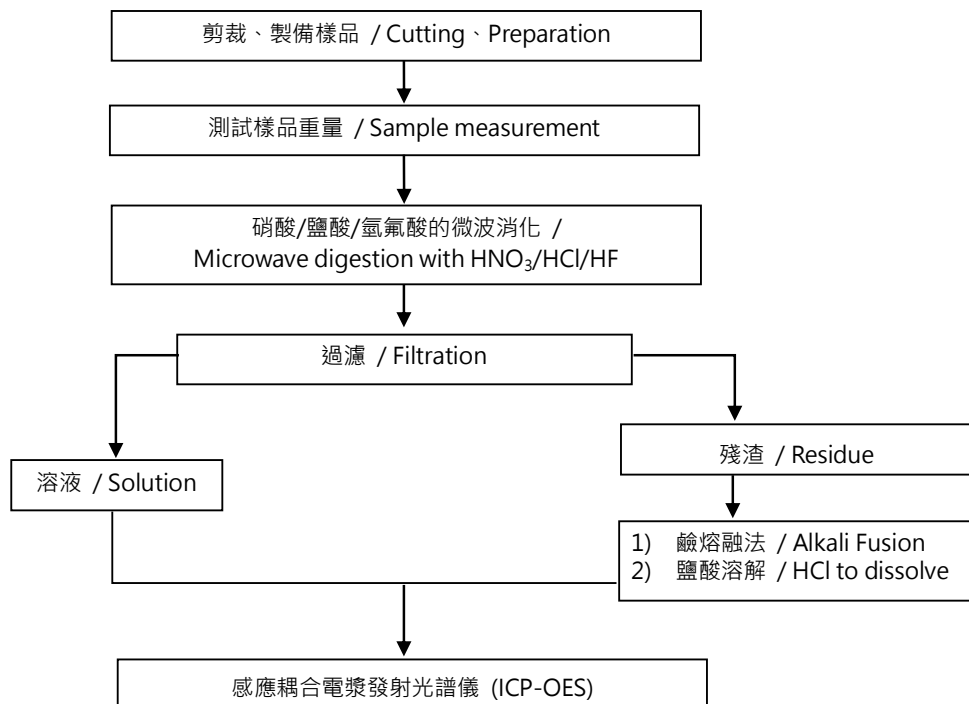
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元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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.

【參考方法/Reference method：US EPA 3051A、US EPA 3052】



* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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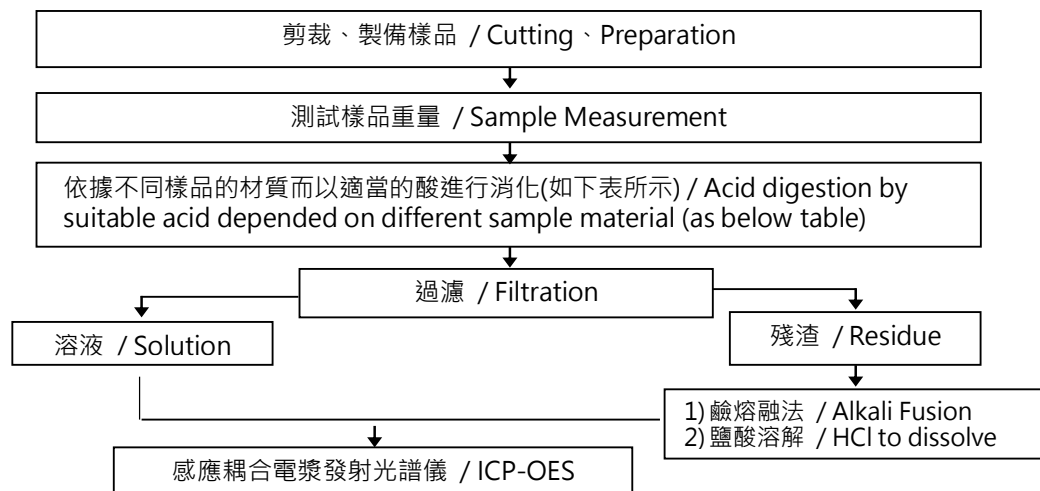
台灣納美仕股份有限公司 (NAMICS TAIWAN CO., LTD.)

苗栗縣銅鑼鄉銅科一路3號 (NO. 3, TONGKE 1ST RD., TONGLUO TOWNSHIP, MIAOLI COUNTY 36645, TAIWAN (R.O.C))

元素以 ICP-OES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-OES)

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.



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	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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測試報告

Test Report

號碼(No.): ETR22501100

日期(Date): 13-May-2022

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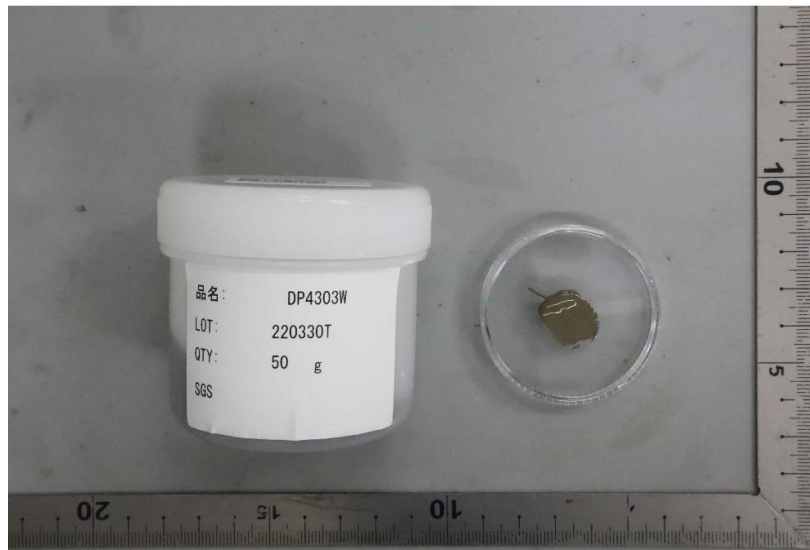
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

ETR22501100



** 報告結尾 (End of Report) **

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KING CORE ELECTRONICS INC.

Tel: 886-3-4698855 Fax: 886-3-4691395

Web Site: <http://www.kingcore.com.tw>

e-mail: kc@mail.kingcore.com.tw

SAFETY DATA SHEET

SDS No. SP-30_B

1、CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT NAME : EMI FERRITE CORE

COMPANY INFORMATION

NAME OF MANUFACTURER : King Core Electronics Inc.

NAME OF SECTION :

ADDRESS : No. 269, Nan Fong Road, Ping Jhen Dist, Tao Yuan City 324, Taiwan

TELEPHONE NUMBER: 886-3-4698855

FAX NUMBER: 886-3-4691395

2、HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL HAZARDS : NA

ADVERSE HUMAN HEALTH HAZARD : NA

ENVIRONMENTAL EFFECTS : NA

3、COMPOSITION , INFORMATION OR INGREDIENT

SUBSTANCE/MIXTURE :

Description of Homogenous sub-part	Components-Chemical Name	wt. %	CAS No.
Ferrite Core	Iron Oxide	~48	1309-37-1
	Nickel Oxide	~15	1314-06-3
	Zinc Oxide	~19	1314-13-2
	Copper Oxide	~14.85	1317-38-0
	Bismuth oxide	~0.15	1304-76-3
Wire	Copper	~1.9	7440-50-8
	Tin	~0.1	7440-31-5
Solder	Silver	~1	7440-22-4

4、FIRST AID MEASURES

EYE CONTACT :

Rinse with good general purpose eye wash

SKIN CONTACT :

Wash off with soap and water



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INHALATION :

Terminate exposure and move to fresh air. Seek medical advise

INGESTION :

Induce drinking of copious quantities of water. Seek medical advise

5、FIRE FIGHTING MEASURES

FLASH POINT : Non flammable

EXPLOSION LIMIT : NA

FIRE-FIGHTING INSTRUCTIONS : NA

EXTINGUISH MEDIA : NA

6、ACCIDENTAL RELEASE MEASURES

Sweep up into containers. Use appropriate protective clothing; gloves; safety glasses and dust masks if required

7、HANDLING AND STORAGE

HANDLING :

Fragile, avoid collision and stress

STORAGE :

Store in clean, dry, well-ventilated environment. Avoid stress

8、EXPOSURE CONTROLS,PERSONAL PROTECTION

EXPOSURE GUIDELINES : NA

ENGINEERING MEASURES : NA

PROTECTIVE EQUIPMENT : NA

RESPIRATORY PROTECTION : NA

EYE PROTECTION : Safety glasses

HAND,SKIN AND BODY PROTECTION : Protective glove, clothing

9、PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Black

BOILING POINT : NA

VAPOUR PRESSURE : NA

MELTING POINT : NA

SPECIFIC GRAVITY : 5g/cm³



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SOLUBILITY (IN WATER) : Insoluble

10、STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable

INCOMPATIBILITY WITH OTHER MATERIALS : Stable

HAZARDOUS DECOMPOSITION PRODUCTS : NA

HAZARDOUS POLYMERIZATION : NA

11、TOXICOLOGICAL INFORMATION

CORROSIVE AND IRRITANT PROPERTIES : NA

ALLERGENIC AND SENSITIZING EFFECTS : NA

ACUTE TOXICITY : NA

SUB-ACUTE TOXICITY : NA

CHRONIC TOXICITY : NA

CARCINOGENIC EFFECTS : NA

MUTAGENIC EFFECTS : NA

EFFECTS ON THE REPRODUCTIVE SYSTEM : NA

TERATOGENIC EFFECTS : NA

12、ECOLOGICAL INFORMATION

BIODEGRADABILITY : NA

BIOACCUMULATION : NA

FISH TOXICITY : NA

OTHER INFORMATION : NA

13、DISPOSAL CONSIDERATIONS

NA

14、TRANSPORT INFORMATION

UN CLASS : NA

UN NUMBER : NA

15、REGULATORY INFORMATION

JAPAN STATUS

EXISTING CHEMICAL SUBSTANCES(MITI) : NA



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US STATUS

TSCA INVENTORY : NA

EU STATUS

EINECS : NA

LABELLING ACCORDING TO EEC DIRECTIVES : NA

HAZARD SYMBOL : NA

RISK PHRASES : NA

SAFETY ADVICES : NA

Regulatory information with regard to this substance in your country or in your region
Should be examined by your own responsibility

16、OTHER INFORMATION

REFERENCES : No specific notes

The information herein is given in good faith , but no warranty , express or implied , is made ;
Please consult the KINGCORE INC. for further information