

寶 號
CUSTOMER

IBS TECHNOLOGY HK INTL LTD.

承 認 書

SPECIFICATION FOR APPROVAL

品 名
DESCRIPTION CLIP

型 號
MODEL NO SV-08M

客 戶 料 號
CUSTOMER PART NO.

單 重
WEIGHT 0.0038 g

日 期
DATE 2019/10/16

APPROVE CENTER		
APPROVE	APPROVE	APPROVE
林奇鋒	王娟	高昱智



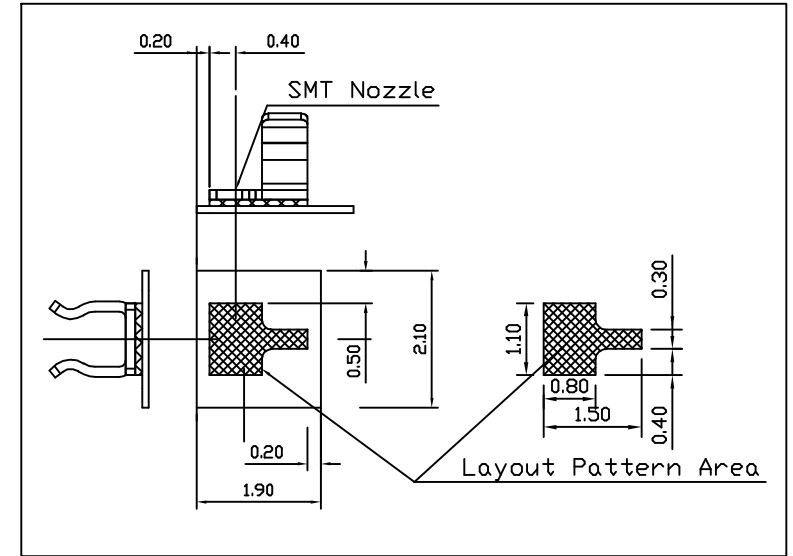
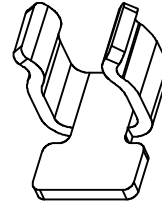
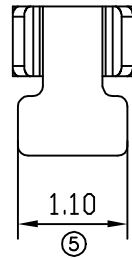
榮 益 電 子 (昆 山) 有 限 公 司
榮益使EMI變容易 EMI STOP STOP EMI

江苏省昆山市开发区太湖南路9号

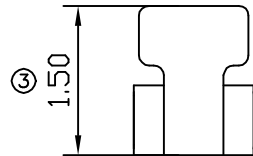
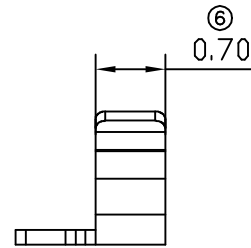
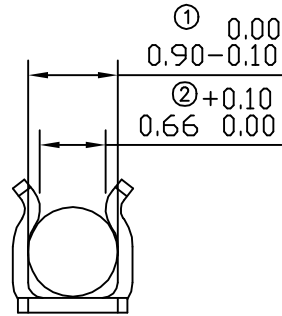
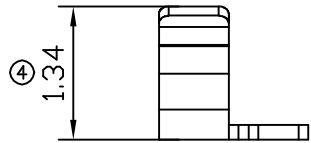
TEL: 86(512)5763-5511 FAX: 86(512)5763-5522

E-mail:service@emistop.com

00 05/22-'12



PCB Recommend Layout Pattern



Note:

1. Material: Stainless steel
2. Thickness: 0.15mm
3. Electroplate:
Matte Sn plating over all
Nickel underplating over all
4. Storing date: Three months.
5. Conform "ROHS" and "GP" and "HSF" and "HF"

TOLERANCE/CLASS			
RANGE(mm)	1	2	3
≤30	+ 0.1 - 0.1	+ 0.15 - 0.15	+ 0.2 - 0.2
30< - ≤120	+ 0.15 - 0.15	+ 0.2 - 0.2	+ 0.3 - 0.3
120< - ≤300	+ 0.2 - 0.2	+ 0.3 - 0.3	+ 0.5 - 0.5
300<	+ 0.3 - 0.3	+ 0.5 - 0.5	+ 0.8 - 0.8
ANGLES	+ 2.5° - 2.5°		

00 05/22-'12	新制圖	
DRAFT Hardy Hsieh	DATE 05/22-'12	TOLERANCES .X ± ____ .XXX ± ____
CHECKER Jacky Lin	DATE 05/22-'12	.XX ± ____ ANGLES ____
APPROVAL Jacky Lin	DATE 05/22-'12	REV 00 SHEET 1/1 UNIT mm SCALE 1:1
DRAWING NO SV-08M	MATERIAL	



EMI STOP CORP.

DESCRIPTION SV-08M	EMISTOP
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榮益電子(昆山)有限公司 EMI STOP CORP.

榮益使 EMI變容易 EMI STOP STOP EMI

TEL : 86(512) 5763-5511 FAX : 86(512) 5763-5522 E-mail:service@emistop.com

FAI Report

品名: CLIP

客戶料號: 榮益料號: SV-08M 測試日期: 2019/10/16

項次	尺寸	單位	公差值			量測值					DIMENSION ACCEPTABLE		備註
						1	2	3	4	5	YES	NO	
1	0.90	mm	+	0.00	- 0.10	0.87	0.87	0.87	0.87	0.87	√		
2	0.66	mm	+	0.10	- 0.00	0.71	0.71	0.70	0.71	0.70	√		
3	1.50	mm	+	0.20	- 0.20	1.52	1.52	1.52	1.51	1.52	√		
4	1.34	mm	+	0.20	- 0.20	1.32	1.32	1.31	1.32	1.32	√		
5	1.10	mm	+	0.20	- 0.20	1.10	1.12	1.11	1.11	1.10	√		
6	0.70	mm	+	0.20	- 0.20	0.73	0.73	0.73	0.73	0.73	√		
7		mm	+		-								

測量員: 詹小芳

審核: 高昱智

FR24-5



榮益電子(昆山)有限公司 EMI STOP CORP.

榮益使 EMI變容易 EMI STOP STOP EMI

TEL : 86(512) 5763-5511 FAX : 86(512) 5763-5522 E-mail:service@emistop.com

CPK Report

榮益料號	SV-08M	Date	2019/10/16 16:29
客戶料號		Inches/mm	mm
Description	CLIP	Inspector	詹小芳
檢測儀器	2.5D	Reviewer	高昱智

Dim. Designator	1	2	3				
Nominal	0.90	0.66	1.50				
+ Tolerance	0.00	0.10	0.20				
- Tolerance	-0.10	0.00	-0.20				
Upper Limit	0.90	0.76	1.70				
Lower Limit	0.80	0.66	1.30				
1	0.87	0.71	1.52				
2	0.87	0.71	1.52				
3	0.87	0.70	1.52				
4	0.87	0.71	1.51				
5	0.87	0.70	1.52				
6	0.87	0.73	1.56				
7	0.85	0.71	1.53				
8	0.87	0.72	1.60				
9	0.86	0.71	1.51				
10	0.88	0.70	1.57				
11	0.87	0.73	1.58				
12	0.86	0.70	1.60				
13	0.86	0.70	1.52				
MAX.	0.8800	0.7300	1.6000				
MIN.	0.8500	0.7000	1.5100				
AVERAGE	0.8669	0.7100	1.5431				
STDEV	0.0075	0.0108	0.0340				
Ca	0.6615	1.0000	0.2154				
CP	2.2191	1.5430	1.9604				
Cpk	1.4680	1.5430	1.5382				

FR33-7

檢驗證明書

INSPECTION CERTIFICATE



客戶：鈞富源企業有限公司

編號：E1040824001

Customer

永富興科技股份有限公司

訂單號碼：

住址：屏東市屏東加工出口區園西街 18 號

Contract NO.

日期：2015/08/24

項目 Item	產品名稱 Description	產品尺寸 Size(MM)	鋼種 Type	數量 Quantity	重量 Weight(KG)	鋼捲號碼 Coil No.
1	CSC	0.15 *290*C	304-1/2H		704 KG	VEM1
2						
3						
4						
5						
6						
7						

化學成份(%) Chemical Composition

物理試驗 Mechanical Test

項目 Item	C	Si	Mn	P	S	Cr	Ni	N	Cu	抗拉強度 T.S N/mm2	降伏強度 Y.S 0.2% N/mm2	伸長率 Elong %	硬度試驗 Hardness HV
1	0.057	0.31	1.28	0.03	0.0026	18.24	8.01			809	592		278
2													
3													
4													
5													
6													
7													

產品名稱 Description

品管主任 QC Manager

檢驗員 Inspector

CSC：冷軋不銹鋼捲 Cold Rolled Stainless Steel Sheet in Coil

洪秋保

吳俊昇

化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

試驗報告

號碼(No.) : KA/2018/C0592 日期(Date) : 2019/01/03

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Test Report

嘉發實業工廠股份有限公司

CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

NO. 83, TAIYUAN RD., TAIPEI, 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) : 冷軋不銹鋼材 (COLD ROLLED STAINLESS STEEL STRIP)
樣品型號(Style/Item No.) : SUS 304
收件日期(Sample Receiving Date) : 2018/12/07
測試期間(Testing Period) : 2018/12/07 to 2019/01/03
送樣廠商(Sample Submitted By) : 嘉發實業工廠股份有限公司 (CHIA FAR INDUSTRIAL FACTORY CO., LTD.)


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).

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指令暨(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 and amending Directive (EU) 2015/863.)


報告簽署人/Ray Chang, Ph.D./Manager-Tech
Signed for and on behalf of
SGS Taiwan Limited



化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

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嘉發實業工廠股份有限公司

CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

NO. 83, TAIYUAN RD., TAIPEI, TAIWAN

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)	限值 (Limit)
				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 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
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	參考 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.	-
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321-6: 2015 方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n. d.	1000
一溴聯苯 / Monobromobiphenyl			5	n. d.	-
二溴聯苯 / Dibromobiphenyl			5	n. d.	-
三溴聯苯 / Tribromobiphenyl			5	n. d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n. d.	-
五溴聯苯 / Pentabromobiphenyl			5	n. d.	-
六溴聯苯 / Hexabromobiphenyl			5	n. d.	-
七溴聯苯 / Heptabromobiphenyl			5	n. d.	-
八溴聯苯 / Octabromobiphenyl			5	n. d.	-
九溴聯苯 / Nonabromobiphenyl			5	n. d.	-
十溴聯苯 / Decabromobiphenyl	5	n. d.	-		

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Test Report

嘉發實業工廠股份有限公司

CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

NO. 83, TAIYUAN RD., TAIPEI, TAIWAN

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)	限值 (Limit)
				No.1	
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321-6: 2015方法, 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.	-	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether			5	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n. d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl ether			5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl ether			5	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl ether			5	n. d.	-
八溴聯苯醚 / Octabromodiphenyl ether			5	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl ether			5	n. d.	-
十溴聯苯醚 / Decabromodiphenyl ether			5	n. d.	-
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg	參考IEC 62321-8:2017, 以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg	參考IEC 62321-8:2017, 以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考IEC 62321-8:2017, 以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg	參考IEC 62321-8:2017, 以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n. d.	1000

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嘉發實業工廠股份有限公司

CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

NO. 83, TAIYUAN RD., TAIPEI, TAIWAN

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. "-" = 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.

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嘉發實業工廠股份有限公司

CHIA FAR INDUSTRIAL FACTORY CO., LTD.

台北市太原路83號

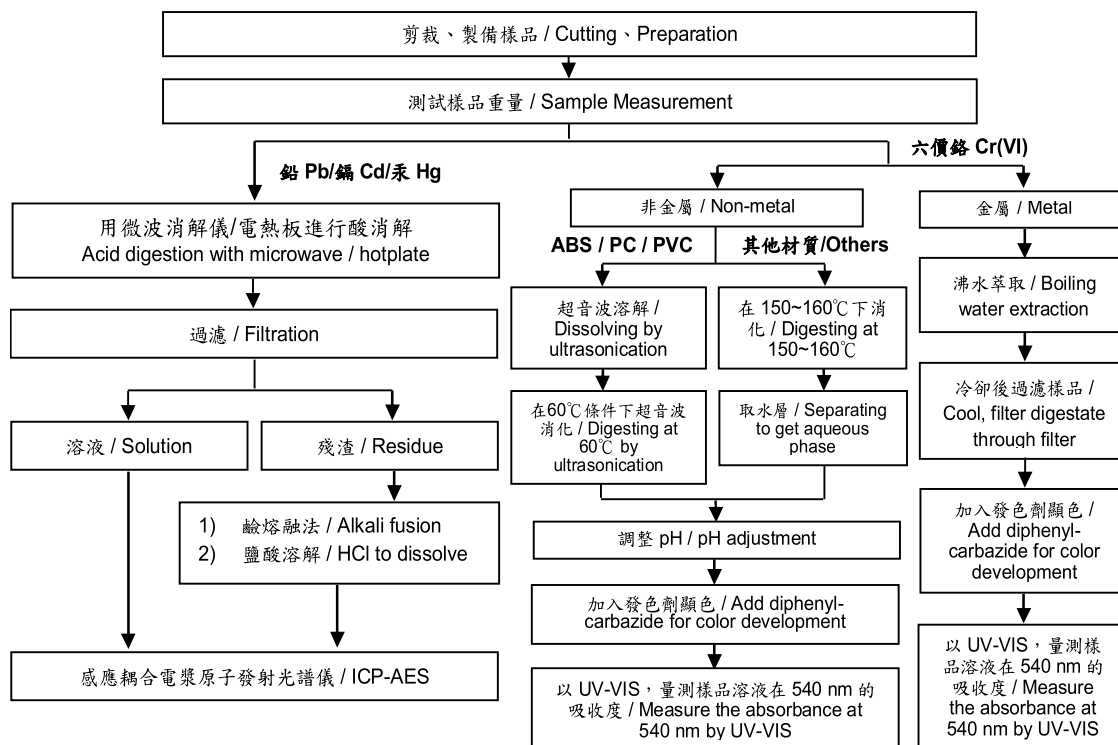
NO. 83, TAIYUAN RD., TAIPEI, TAIWAN

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)

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



化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

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嘉發實業工廠股份有限公司

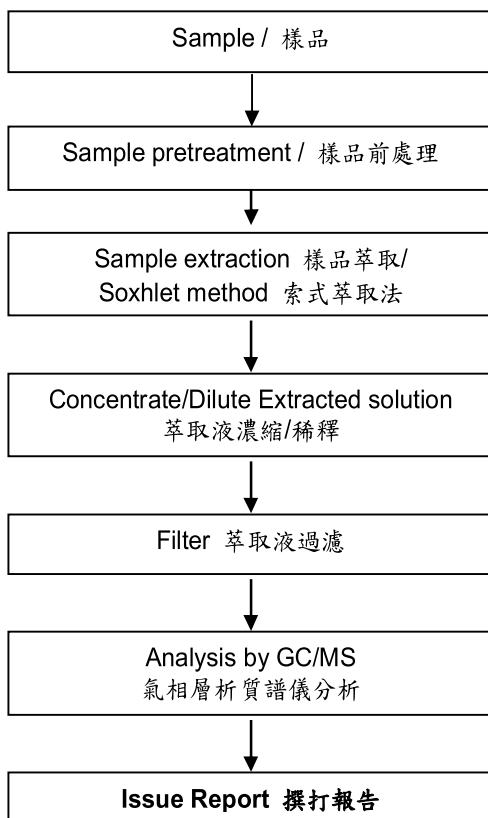
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NO. 83, TAIYUAN RD., TAIPEI, TAIWAN

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

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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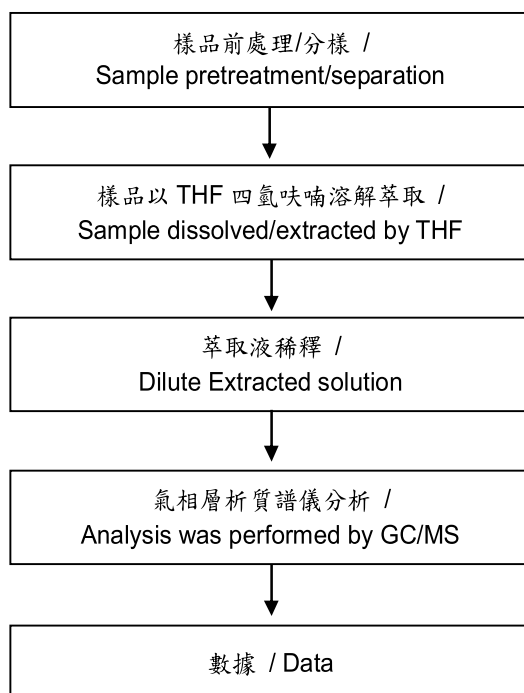
台北市太原路83號

NO. 83, TAIYUAN RD., TAIPEI, TAIWAN

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

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang

【測試方法/Test method: IEC 62321-8】



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化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

試驗報告

Test Report

號碼(No.) : KA/2018/C0592 日期(Date) : 2019/01/03

頁數 (Page) : 8 of 8

嘉發實業工廠股份有限公司

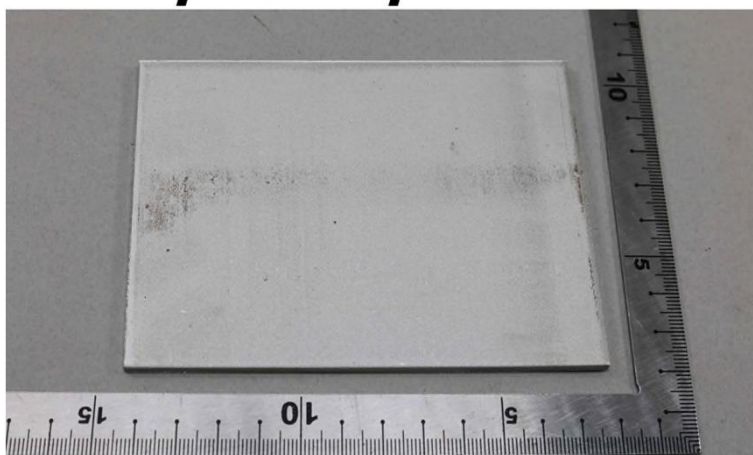
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2018/C0592



** 報告結尾 (End of Report) **

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測試報告

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盛暘企業有限公司

SENORES ENTERPRISE CO., LTD.

新北市土城區千歲路36號

NO. 36, QIANSUI RD., TUCHENG DIST., NEW TAIPEI CITY 236, 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) : 盛暘企業有限公司 (SENORES ENTERPRISE CO., LTD.)
樣品名稱(Sample Description) : Sn 錫
收件日期(Sample Receiving Date) : 2018/12/11 and 2018/12/25
測試期間(Testing Period) : 2018/12/11 to 2018/12/18 and 2018/12/25 to 2019/01/03

測試需求(Test Requested):

- (1) 依據客戶指定, 參考RoHS指令2011/65/EU Annex II測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs 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) 根據客戶所選擇的部位測試, 其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合RoHS 2011/65/EU Annex II之限值要求。(Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)


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



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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

測試部位(PART NAME)No. 2 : 銀色金屬 (含鍍層) (SILVER COLORED METAL (INCLUDING THE PLATING LAYER))

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)		限值 (Limit)
				No. 1	No. 2	
鎘 / Cadmium (Cd)	mg/kg	酸洗脫鍍層，參考IEC 62321-5 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	100
鉛 / Lead (Pb)	mg/kg	酸洗脫鍍層，參考IEC 62321-5 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	1000
汞 / Mercury (Hg)	mg/kg	酸洗脫鍍層，參考IEC 62321-4 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-4 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	1000
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	參考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.	---	-

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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)		限值 (Limit)
				No. 1	No. 2	
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	—	n. d.	---	1000
一溴聯苯 / Monobromobiphenyl	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.	---	—
多溴聯苯醚總和 / Sum of PBDEs	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.	---	—

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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)		限值 (Limit)
				No. 1	No. 2	
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3050B (1996), 以感應耦合電漿原子發射光譜儀檢測。 / With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES.	2	---	n. d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	$\mu\text{g}/\text{m}^2$	參考US EPA 3550C (2007), 以液相層析儀/質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	1	n. d.	---	-
全氟辛酸 / PFOA (CAS No. : 335-67-1)	$\mu\text{g}/\text{m}^2$	參考US EPA 3550C (2007), 以液相層析儀/質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	1	n. d.	---	-
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	mg/kg	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.	50	---	n. d.	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1)	mg/kg		50	---	n. d.	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2)	mg/kg		50	---	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8)	mg/kg		50	---	n. d.	-

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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 (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測項目)
6. (#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.

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

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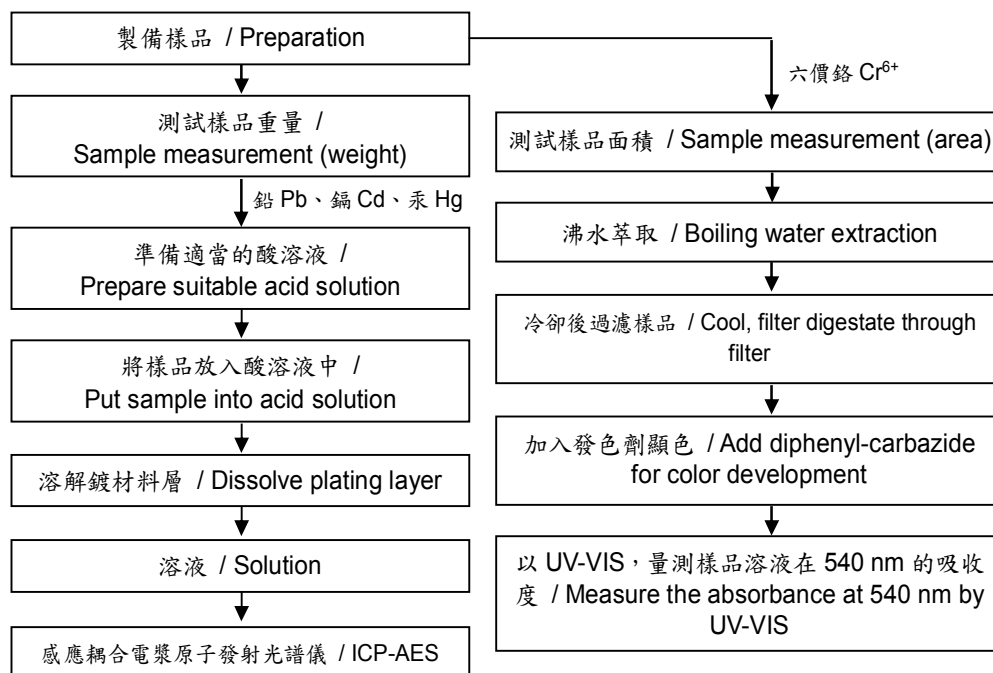
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根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：陳恩臻 / Technician : Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

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



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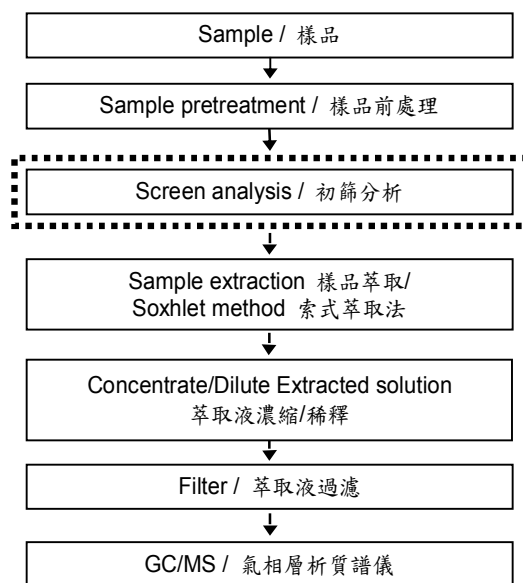
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

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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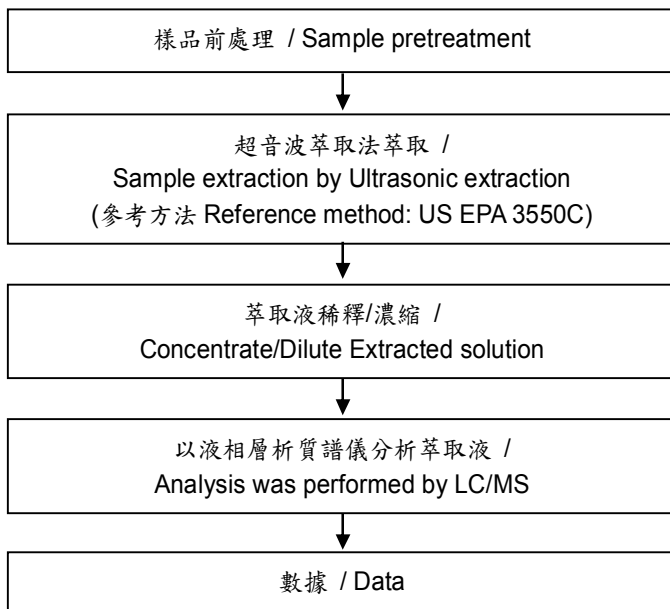
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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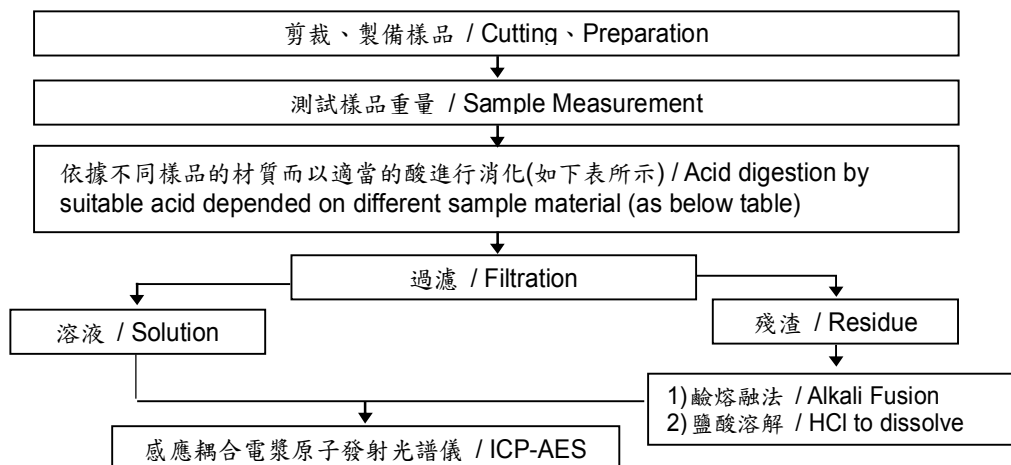
NO. 36, QIANSUI RD., TUCHENG DIST., NEW TAIPEI CITY 236, TAIWAN (R. O. C.)



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.

- 測試人員：陳思臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



銅,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,鈱,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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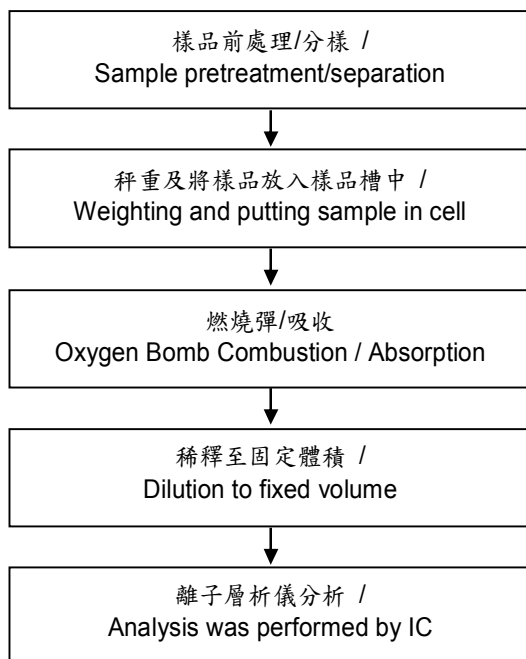
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NO. 36, QIANSUI RD., TUCHENG DIST., NEW TAIPEI CITY 236, TAIWAN (R. O. C.)



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

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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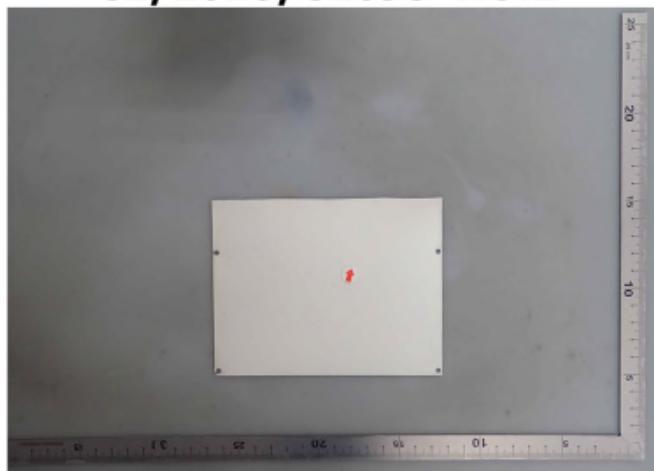
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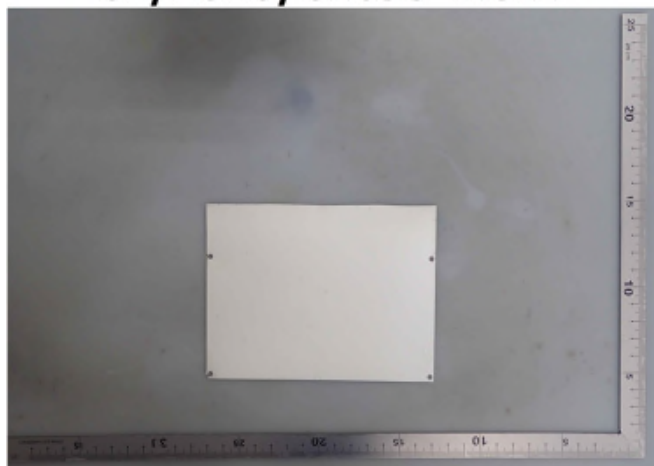


* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2018/C1695 NO.1



CE/2018/C1695 NO.2



** 報告結尾 (End of Report) **

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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) : 盛暘企業有限公司 (SENORES ENTERPRISE CO., LTD.)
樣品名稱(Sample Description) : NICKEL 鎳
收件日期(Sample Receiving Date) : 2018/12/11 and 2018/12/25
測試期間(Testing Period) : 2018/12/11 to 2018/12/18 and 2018/12/25 to 2019/01/03

測試需求(Test Requested):

- (1) 依據客戶指定, 參考RoHS指令2011/65/EU Annex II測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs 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) 根據客戶所選擇的部位測試, 其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合RoHS 2011/65/EU Annex II之限值要求。(Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)

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



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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 銀色金屬鍍層 (PLATING LAYER OF SILVER COLORED METAL)

測試部位(PART NAME)No. 2 : 銀色金屬 (含鍍層) (SILVER COLORED METAL (INCLUDING THE PLATING LAYER))

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)		限值 (Limit)
				No. 1	No. 2	
鎘 / Cadmium (Cd)	mg/kg	酸洗脫鍍層，參考IEC 62321-5 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	100
鉛 / Lead (Pb)	mg/kg	酸洗脫鍍層，參考IEC 62321-5 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	1000
汞 / Mercury (Hg)	mg/kg	酸洗脫鍍層，參考IEC 62321-4 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-4 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	1000
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	參考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.	---	-

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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)		限值 (Limit)
				No. 1	No. 2	
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321-6 (2015), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	—	n. d.	---	1000
一溴聯苯 / Monobromobiphenyl	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.	---	—
多溴聯苯醚總和 / Sum of PBDEs	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.	---	—

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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)		限值 (Limit)
				No. 1	No. 2	
鉍 / Beryllium (Be)	mg/kg	參考US EPA 3050B (1996), 以感應耦合電漿原子發射光譜儀檢測。 / With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES.	2	---	n. d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	μg/m ²	參考US EPA 3550C (2007), 以液相層析儀/質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	1	n. d.	---	-
全氟辛酸 / PFOA (CAS No. : 335-67-1)	μg/m ²	參考US EPA 3550C (2007), 以液相層析儀/質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	1	n. d.	---	-
鹵素 / Halogen						
鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8)	mg/kg	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.	50	---	n. d.	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1)	mg/kg		50	---	n. d.	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2)	mg/kg		50	---	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8)	mg/kg		50	---	n. d.	-

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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 (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測項目)
6. (#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.

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

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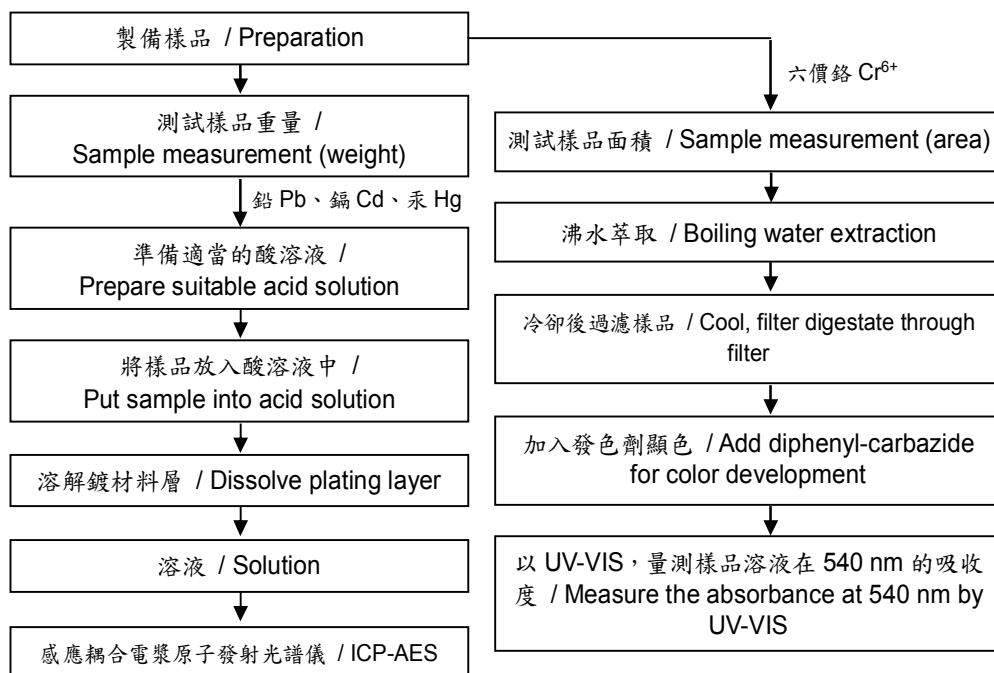
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根據以下的流程圖之條件，樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：陳恩臻 / Technician : Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

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



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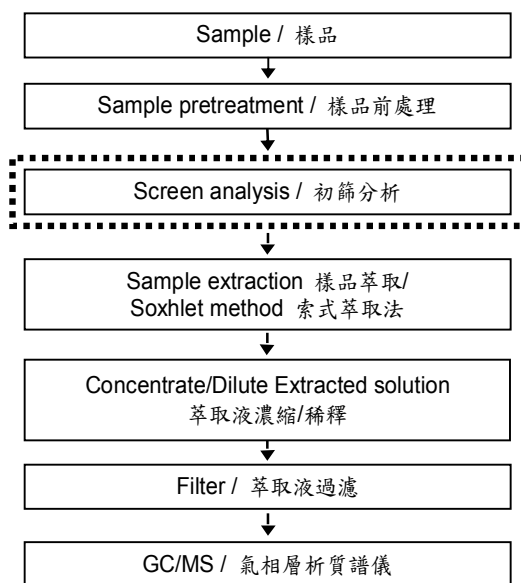
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

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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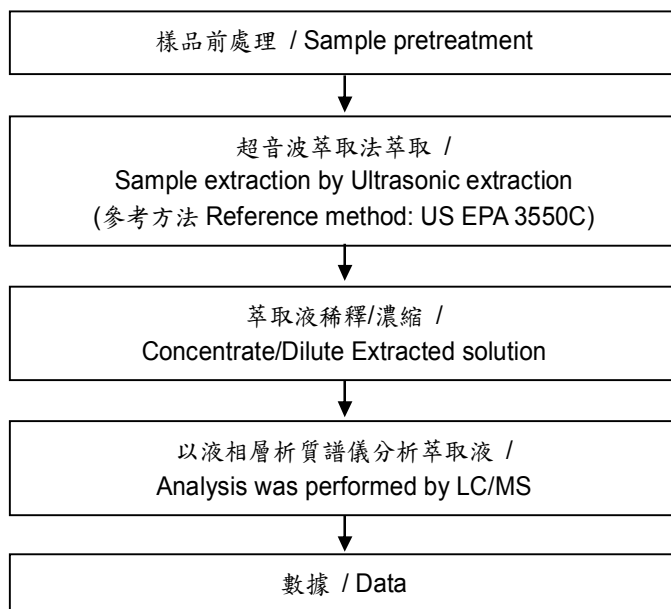
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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新北市土城區千歲路36號

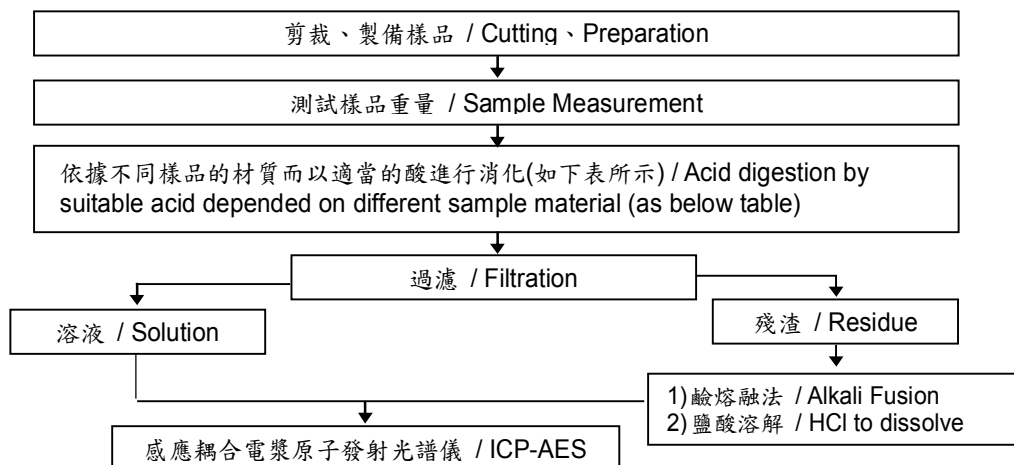
NO. 36, QIANSUI RD., TUCHENG DIST., NEW TAIPEI CITY 236, TAIWAN (R. O. C.)



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.

- 測試人員：陳思臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



銅,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

測試報告

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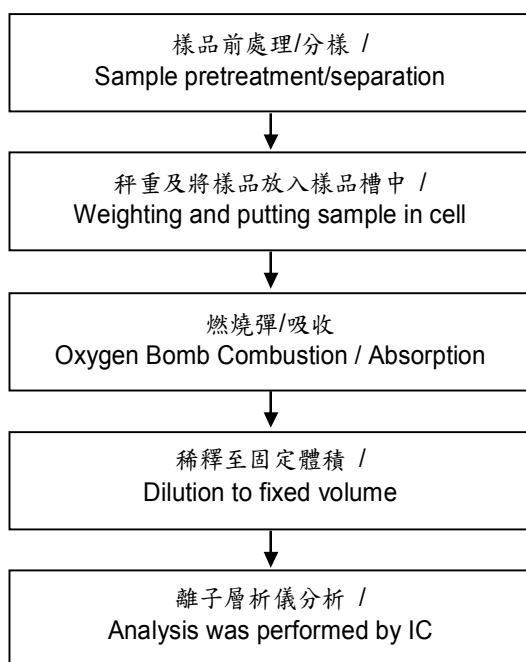
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NO. 36, QIANSUI RD., TUCHENG DIST., NEW TAIPEI CITY 236, TAIWAN (R. O. C.)



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

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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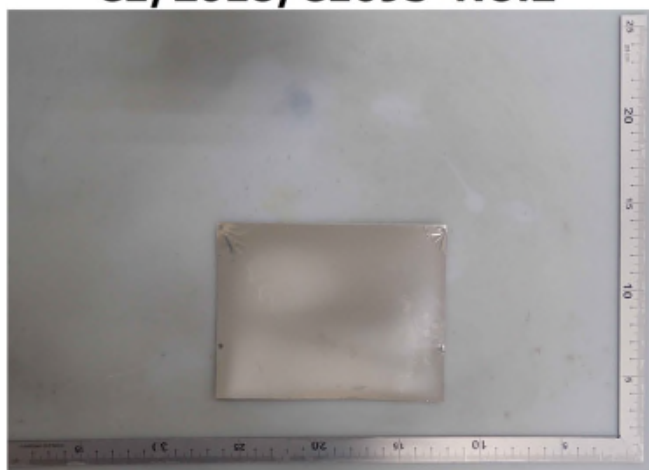


* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2018/C1693 NO.1



CE/2018/C1693 NO.2



** 報告結尾 (End of Report) **

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