



設計驗證
工程課
2024-12-16
發行
鈺緯科技開發股份有限公司

雄業實業股份有限公司

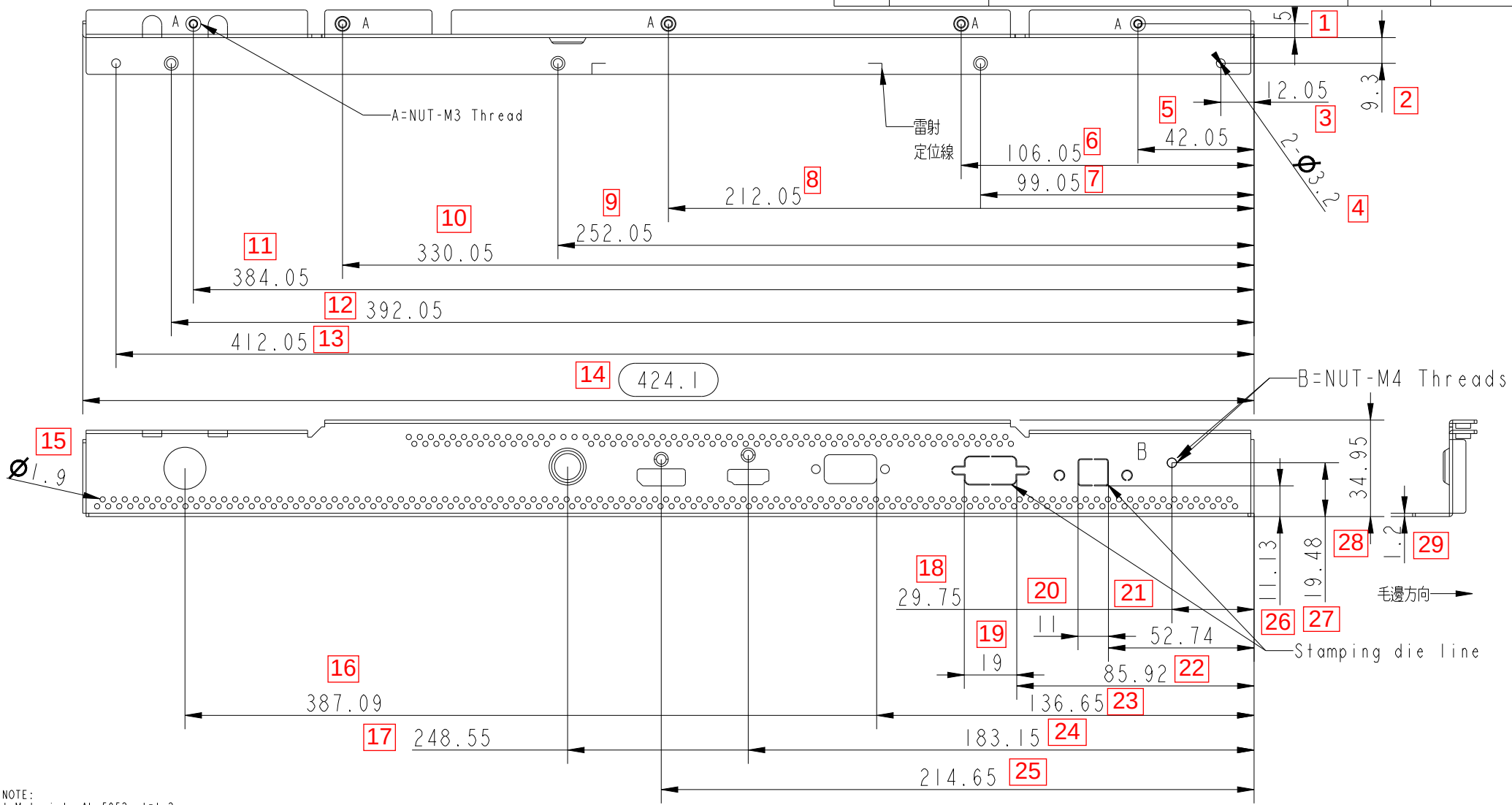
樣 品 承 認 書

雄業實業股份有限公司
TEL:2201-9999
臺北市新莊區新樹路288-10號

客　　戶：	鈺緯科技
料　　號：	3MD622ME040(M3475)
品　　名：	IO BRACKET (PC270434R(RGD2773AMII-P))
日　　期：	113/12/10
送樣數量：	3　　PCS

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REV.	DATE	DESCRIPTION	BY	APVD



NOTE:
1. Material: AL 5052, t=1.2 mm.
2. Finish: Chemical Conversion Coat(Phosphate coating).
3. Flatness tolerance : ±0.5
4. RoHS Compliant.
5. All pitch dimensions without accumulated.
6. Burrs not exceed 10% Max Thickness.
7. Unspecified dimension tolerance reference tolerance table.
8. Unspecified Angle Tolerance is ±0.5°.
9. Unspecified radii to be thickness.
10. All of rust was not allowed.
11. " O " is MAJOR Dimension.
12. Please refer to 3D file when dimensions can't found in drawing.
13. All surfaces without oil stain.
14. Burry Hole: Torque >=7kgf/cm Stand Off/ NUT :Pull sterength >=20kgf ;Torque >=9kgf/cm Rivet:Pull sterength >=4kgf
16. DIVA QC Inspection Document NO.:QWI-014 (Metal)

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RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION V f	V m	V c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

DSGD by	KimHuang	2022/12/30	
CHK by			
APVD by	Leslie	2024/12/12	
APVD NO.: (M3475)	3D FILE NAME: IO_BKT_3MD622ME040		

UNITS:mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.:
MATERIAL:		TREATMENT:	

PART NAME: IO BRACKET (RGD2773AM11-P)

PART NO.: 3MD622ME040 REV.

DIVA Laboratories ,Ltd.

Test Result	

DIVA FAI DATA SHEET

Part Number :	3MD622ME040 (M3475)	Supplier :	雄業	Date:	2024/12/10
Part Description :				Cavity / Tool # :	
Revision :	0	Material Spec:	AL5052 T=1.2mm	Inspector:	李宥廷

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine, OMM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = V D

OTHER:

DRAWING SPECIFICATIONS						INSPECTION RESULTS							INSPECTION ANALYSIS					
						Sample Number							% Tolerance		Alert/Rej		Supplier	RD Engineering
ITEM	LOCATION	NOMINAL	+TOL	-TOL	Method	1	2	3	1	2	3	Mean	UPPER	LOWER	HIGH	LOW	Remarks	Disposition
1	A7	5.00	0.10	0.10		5.100	5.100	5.090	0.100	0.100	0.090	5.097	100%	0%	Alert			
2	A8	9.30	0.10	0.10		9.400	9.400	9.390	0.100	0.100	0.090	9.397	100%	0%	Alert			
3	A7	12.05	0.10	0.10		11.950	11.960	11.950	-0.100	-0.090	-0.100	11.953	0%	100%		Alert		
4	B7	3.20	0.10	0.10		3.200	3.200	3.210	0.000	0.000	0.010	3.203	10%	0%				
5	A7	42.05	0.15	0.15		41.920	41.940	41.920	-0.130	-0.110	-0.130	41.927	0%	87%		Alert		
6	A9	106.05	0.15	0.15		106.010	106.030	106.020	-0.040	-0.020	-0.030	106.020	0%	27%				
7	B6	99.05	0.15	0.15		98.910	98.930	98.920	-0.140	-0.120	-0.130	98.920	0%	93%		Alert		
8	B5	212.05	0.20	0.20		211.900	211.920	211.900	-0.150	-0.130	-0.150	211.907	0%	75%		Alert		
9	B4	252.05	0.20	0.20		252.050	252.030	252.040	0.000	-0.020	-0.010	252.040	0%	10%				
10	B3	330.05	0.30	0.30		329.920	329.940	329.920	-0.130	-0.110	-0.130	329.927	0%	43%				
11	B4	384.05	0.30	0.30		383.980	384.000	384.020	-0.070	-0.050	-0.030	384.000	0%	23%				
12	B3	392.05	0.30	0.30		392.060	392.100	392.060	0.010	0.050	0.010	392.073	17%	0%				
13	C2	412.05	0.30	0.30		411.990	412.030	412.000	-0.060	-0.020	-0.050	412.007	0%	20%				
14	C4	424.10	0.30	0.30		424.050	424.060	424.050	-0.050	-0.040	-0.050	424.053	0%	17%				
15	C1	1.90	0.10	0.10		2.000	2.000	1.980	0.100	0.100	0.080	1.993	100%	0%	Alert			
16	E2	387.09	0.30	0.30		387.050	387.100	387.060	-0.040	0.010	-0.030	387.070	3%	13%				
17	E3	248.55	0.20	0.20		248.440	248.480	248.460	-0.110	-0.070	-0.090	248.460	0%	55%				
18	D6	29.75	0.10	0.10		29.650	29.660	29.650	-0.100	-0.090	-0.100	29.653	0%	100%		Alert		
19	D6	19.00	0.10	0.10		18.990	19.020	19.000	-0.010	0.020	0.000	19.003	20%	10%				
20	D6	11.00	0.10	0.10		10.960	10.980	10.970	-0.040	-0.020	-0.030	10.970	0%	40%				
21	D7	52.74	0.15	0.15		52.760	52.740	52.750	0.020	0.000	0.010	52.750	13%	0%				
22	E7	85.92	0.15	0.15		85.920	85.900	85.930	0.000	-0.020	0.010	85.917	7%	13%				
23	E6	136.65	0.20	0.20		136.650	136.680	136.640	0.000	0.030	-0.010	136.657	15%	5%				
24	E6	183.15	0.20	0.20		183.160	183.200	183.180	0.010	0.050	0.030	183.180	25%	0%				
25	E6	214.65	0.20	0.20		214.740	214.700	214.720	0.090	0.050	0.070	214.720	45%	0%				
26	D7	11.13	0.10	0.10		11.100	11.140	11.120	-0.030	0.010	-0.010	11.120	10%	30%				
27	D7	19.48	0.10	0.10		19.420	19.440	19.430	-0.060	-0.040	-0.050	19.430	0%	60%				
28	C8	34.95	0.15	0.15		34.800	34.820	34.810	-0.150	-0.130	-0.140	34.810	0%	100%		Alert		
29	D8	1.20	0.10	0.10		1.200	1.210	1.180	0.000	0.010	-0.020	1.197	10%	20%				

Instructions:
1.Inspector mest fillout the yellow area.
2. The table will automatically calculate the data in green area.

測試報告
Test Report

號碼(No.): ETR24604157　　日期(Date): 26-Jun-2024　　

卓揚五金股份有限公司 (SURSUN METALS CO., LTD.)
新北市新莊區大安路9號 (NO. 9, DA-AN RD., XINZHUANG DISTRICT, NEW TAIPEI CITY 24262, TAIWAN 24262)

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)	:	卓揚五金股份有限公司 (SURSUN METALS CO., LTD.)
樣品名稱(Sample Name)	:	ALUMINIUM (鋁材)
樣品型號(Style/Item No.)	:	AL 5052

==========

收件日(Sample Receiving Date)	:	19-Jun-2024
測試期間(Testing Period)	:	19-Jun-2024 to 26-Jun-2024

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.)

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

CHECK REPORT
PIN CODE: B6717674

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測試報告
Test Report

卓揚五金股份有限公司 (SURSUN METALS CO., LTD.)
新北市新莊區大安路9號 (NO. 9, DA-AN RD., XINZHUANG DISTRICT, NEW TAIPEI CITY 24262, TAIWAN 24262)

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬片 (SILVER COLORED METAL SHEET)

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))	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	4.71
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 (Hexavalent Chromium) Cr(VI) (#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/cm²	0.1	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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Test Report

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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))	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.
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)	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.
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	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.
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	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.

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測試報告
Test Report

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
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)	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.

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

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卓揚五金股份有限公司 (SURSUN METALS CO., LTD.)
新北市新莊區大安路9號 (NO. 9, DA-AN RD., XINZHUANG DISTRICT, NEW TAIPEI CITY 24262, TAIWAN 24262)

PFAS Remark：

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)
(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives)	全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)	1763-23-1
	全氟辛基磺酸鉀 (PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	全氟辛基磺酸鋰 (PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	全氟辛基磺酸銨 (PFOS-NH_4) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH_4)	29081-56-9
	全氟辛基磺酸二乙醇銨 (PFOS-$NH(OH)_2$) Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$)	70225-14-8
	全氟辛基磺酸四乙基銨 (PFOS-$N(C_2H_5)_4$) Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
	全氟辛基磺酸二癸二甲基銨 (PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	全氟辛基磺酸四丁基銨 (PFOS-$N(C_4H_9)_4$) TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
	全氟辛基磺醯氟 (POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	全氟辛基磺酸鎂 (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	全氟辛基磺酸鈉 (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	全氟辛烷磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6

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新北市新莊區大安路9號 (NO. 9, DA-AN RD., XINZHUANG DISTRICT, NEW TAIPEI CITY 24262, TAIWAN 24262)

群組名稱 (Group Name)	物質名稱 (Substance Name)	CAS No.
PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives)	全氟辛酸 (Perfluorooctanoic acid) (PFOA)	335-67-1
	全氟辛酸鈉 (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	全氟辛酸鉀 (PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	全氟辛酸銀 (PFOA-Ag) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	全氟辛氟 (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	全氟辛酸銨 (APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	全氟辛酸鋰 (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	全氟辛酸鈷 (PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	全氟辛酸銫 (PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	全氟辛酸鉻 (PFOA-Cr(3^+)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3^+))	68141-02-6
	全氟辛酸-哌嗪(2:1) PFOA-NH($C_4H_{10}N$) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH($C_4H_{10}N$)	423-52-9
	全氟辛酸鹽 Pentadecafluorooctanoate (anion)	45285-51-6
	全氟辛酸酐 Perfluorooctanoic Anhydride	33496-48-9

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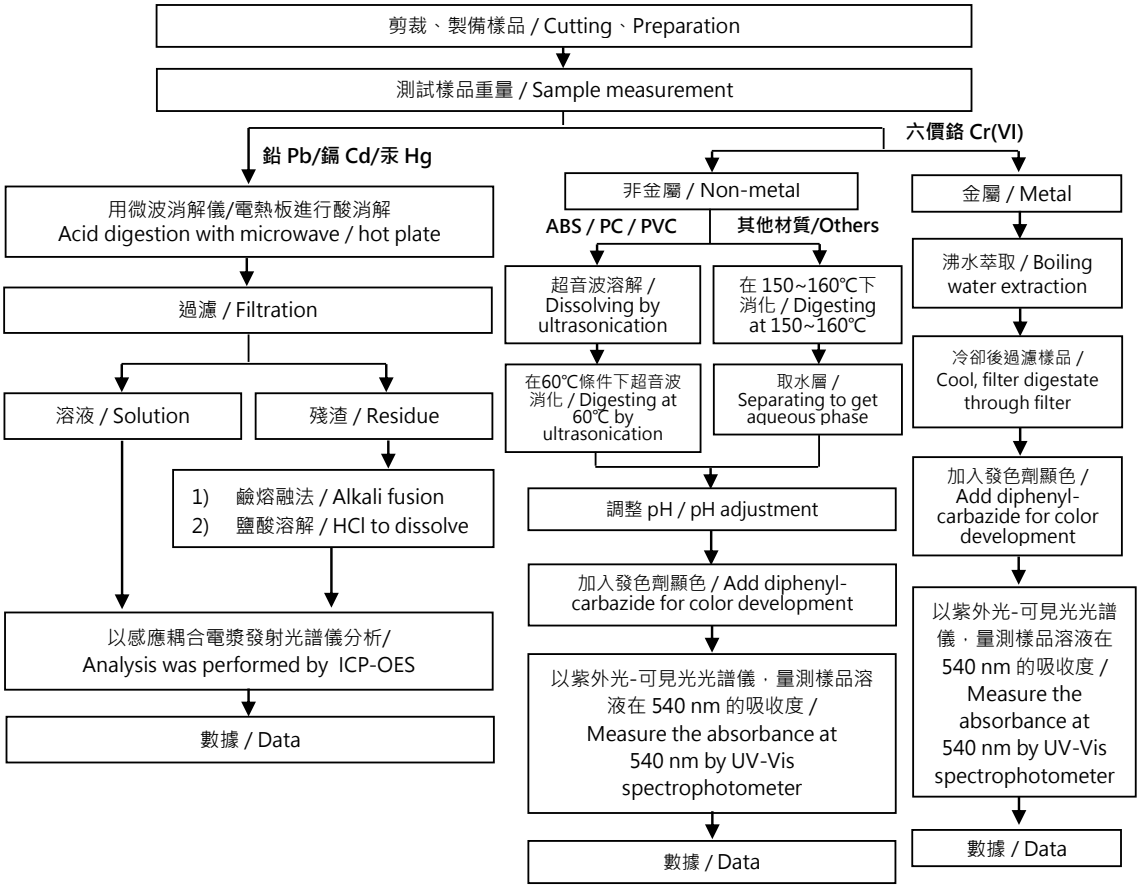
卓揚五金股份有限公司 (SURSUN METALS CO., LTD.)
新北市新莊區大安路9號 (NO. 9, DA-AN RD., XINZHUANG DISTRICT, NEW TAIPEI CITY 24262, TAIWAN 24262)

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）

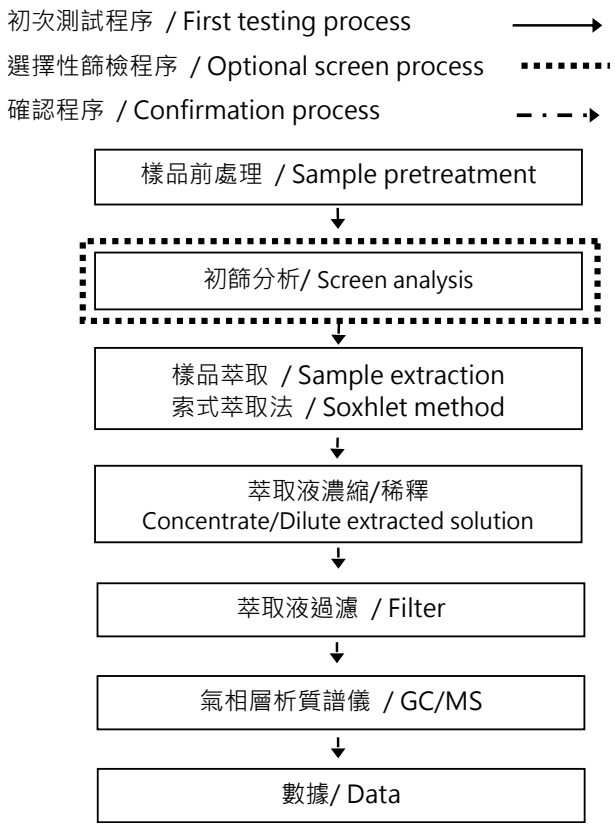
These samples were dissolved totally by pre-conditioning method according to below flow chart.

（Cr^{6+} test method excluded）



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

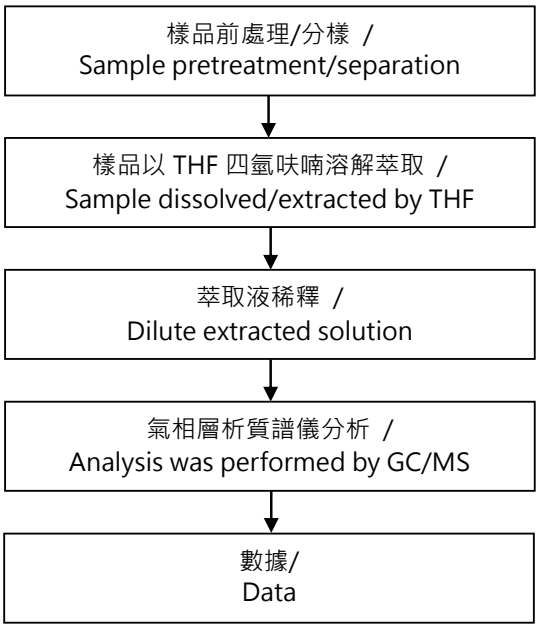


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可塑劑分析流程圖 / Analytical flow chart - Phthalate

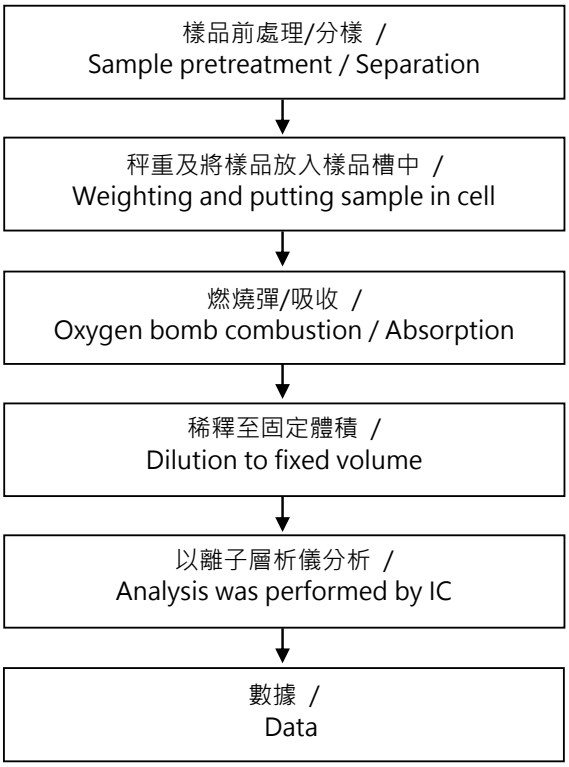
【測試方法/Test method: IEC 62321-8】



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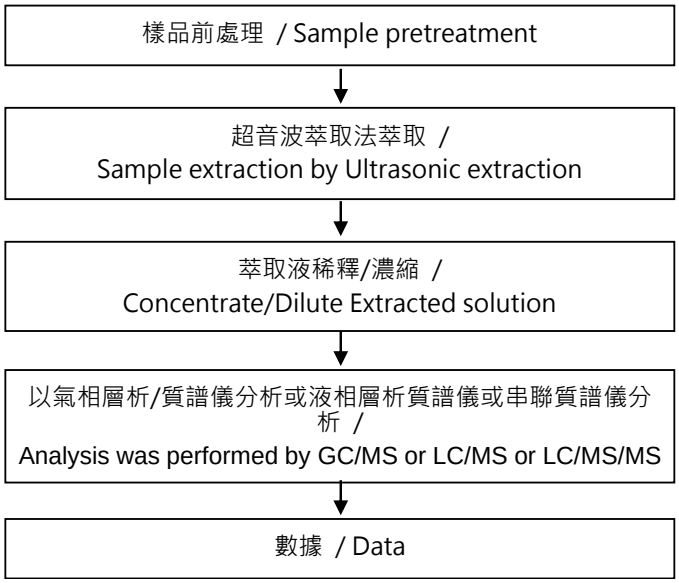
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鹵素分析流程圖 / Analytical flow chart - Halogen



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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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測試報告
Test Report

卓揚五金股份有限公司 (SURSUN METALS CO., LTD.)
新北市新莊區大安路9號 (NO. 9, DA-AN RD., XINZHUANG DISTRICT, NEW TAIPEI CITY 24262, TAIWAN 24262)

*** 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.)

ETR24604157



** 報告結尾 (End of Report) **

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一、物品與廠商辨識資料

物品名稱：ALUMINIUM COILS AND SHEETS(鋁捲片 、鋁板)
物品編號：AL1050、AL1070、AL1100、AL3003、AL3004、AL5052、AL6061..等
製造商或供應商名稱、地址及電話： 卓揚五金股份有限公司/新北市新莊區大安路 9 號
緊急聯絡電話/傳真電話：Tel:02-22068688 Fax:02-22062669

二、危害辨識資料

最重要危害效應	健康危害效應：無
	環境影響：無
	物理性及化學性危害：無
	特殊危害：無
主要症狀：無	
物品危害分類：無	

三、成分辨識資料

適用標準規範：CNS:2253

中英文名稱： ALUMINIUM COILS AND SHEETS(鋁捲片 、鋁板)
同義名稱：
化學文摘社登記號碼(CAS No.)： 矽(Si) 7440-21-3　　鐵(Fe) 7439-89-6 銅(Cu)7440-50-8　　錳(Mn)7439-96-5 鎂(Mg) 7439-95-4　　鉻(Cr) 7440-47-3 鋅(Zn)7440-66-6　　鈦(Ti)7440-32-6 鋁(AL) 7429-90-5
危害物質成分(成分百分比) ：無

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	AL
AL1050	≦0.25	≦0.40	≦0.05	≦0.05	≦0.05	-	≦0.05	≦0.03	≦0.03	≧99.5
AL1070	≦0.2	≦0.25	≦0.04	≦0.03	≦0.03	-	≦0.04	≦0.03	≦0.03	≧99.7
AL1100	Si+Fe≦0.95		0.05~0.2	≦0.03	-	-	≦0.1	-	≦0.05	≧99.0
AL3003	≦0.6	≦0.7	0.05~0.2	1.0~1.5	-	-	≦0.1	-	≦0.05	REM
AL3004	≦0.3	≦0.7	≦0.25	1.0~1.5	0.8~1.3	-	≦0.25	-	≦0.05	REM
AL5052	≦0.25	≦0.40	≦0.10	≦0.10	2.20 ~2.80	0.15 ~0.35	≦0.10	-	≦0.15	REM
AL6061	0.4~0.8	≦0.70	0.15~0.4	≦0.15	0.80 ~1.20	0.04 ~0.35	≦0.25	≦0.15	≦0.05	REM

混合物：

化學性質：		
危害物質成分之中英文名稱	濃度或濃度範圍(成分百分比)	危害物質分類及圖式
無	無	無
-	-	-

四、急救措施

不同暴露途徑之急救方法：- ˙吸入：無 ˙皮膚接觸：鋁板四側銳利，容易割傷，請戴手套拿取 ˙眼睛接觸：無 ˙食入： 無
最重要症狀及危害效應：割傷、壓傷
對急救人員之防護：如割傷請儘快止血
對醫師之提示：無

五、滅火措施

適用滅火劑： 無
滅火時可能遭遇之特殊危害：無，非可燃物
特殊滅火程序：無
消防人員之特殊防護設備：無

六、洩漏處理方法

個人應注意事項：無
環境注意事項：無
清理方法：無

七、安全處置與儲存方法

處置： 處於平整無傾斜的地方
儲存： 請處於陰涼，無日曬及下雨潮濕的地方 因鋁材重量重 請勿置於高處

八、暴露預防措施

工程控制： 無
控制參數： ˙八小時日時量平均容許濃度/短時間時量平均容許濃度/最高容許濃度：無 ˙生物指標：無
個人防護設備： ˙呼吸防護：無 ˙手部防護：手套 ˙眼睛防護：無 ˙皮膚及身體防護：無
衛生措施： 無

九、物理及化學性質

AL 純物質

沸點	2,467 ℃	易燃性	粉塵會爆炸 （合金穩定狀態）
熔點		閃火點	760℃
水分配係數 (logK)	-	自燃溫度	-
密度(水=1)	2.698（合金 7.1-7.5）	揮發速度	-
蒸氣密度	-	爆炸界限	-
水溶解度	不溶	蒸氣壓	-

十、安定性及反應性

安定性：依安全儲存程序，安定性佳
特殊狀況下可能之危害反應：無
應避免之狀況： 無
應避免之物質：無
危害分解物：無

十一、毒性資料

急毒性：無
局部效應：無
致敏感性：無
慢毒性或長期毒性：無
特殊效應：無

十二、生態資料

可能之環境影響/環境流佈： 鋁材為不可腐爛，邊料及不可使用的材料，需要合格的廢料商回收做處理， 以免鋁材銳利的四側割傷動物及影響生態。 持久性與降解性: 無相關資料 生物蓄積性: 無相關資料 土壤中之流動性: 無相關資料 其他不良效應: 無相關資料

十三、廢棄處置方法

廢棄處置方法： 需要合格的廢料商回收做處理。

十四、運送資料

國際運送規定：無
聯合國編號： 無
國內運送規定： 無
特殊運送方法及注意事項： 每捲堆疊棧板包裝運送

十五、法規資料

適用法規：無

十六、其他資料

參考文獻	CNS	
製表單位	名稱：卓揚五金股份有限公司	
	地址/電話：新北市新莊區大安路 9 號／02-22068688	
修正日期	2024/02/21	卓揚五金股份有限公司 TEL：(02)2206-8688 收發章 新北市新莊區大安路9號
備　註		

測試報告
Test Report

巨昌金屬股份有限公司 (GEU CHONE METAL CO., LTD.)
新北市五股區四維路27巷1號 (NO. 1, LANE 27, SIWEI RD., WUGU SHIANG, TAIPEI 248014, 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)	:	巨昌金屬股份有限公司 (GEU CHONE METAL CO., LTD.)
樣品名稱(Sample Name)	:	FREE CUTTING STEEL (硫磺快削鋼)
樣品型號(Style/Item No.)	:	SAE1215MS

==========

收件日(Sample Receiving Date)	:	02-Jan-2024
測試期間(Testing Period)	:	02-Jan-2024 to 09-Jan-2024

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.)

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

PIN CODE: 3E450B94

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測試報告
Test Report

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新北市五股區四維路27巷1號 (NO. 1, LANE 27, SIWEI RD., WUGU SHIANG, TAIPEI 248014, TAIWAN)

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)
				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))	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))	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 (Hexavalent Chromium) Cr(VI) (#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/cm²	0.1	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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巨昌金屬股份有限公司 (GEU CHONE METAL CO., LTD.)
新北市五股區四維路27巷1號 (NO. 1, LANE 27, SIWEI RD., WUGU SHIANG, TAIPEI 248014, 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.
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		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.

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

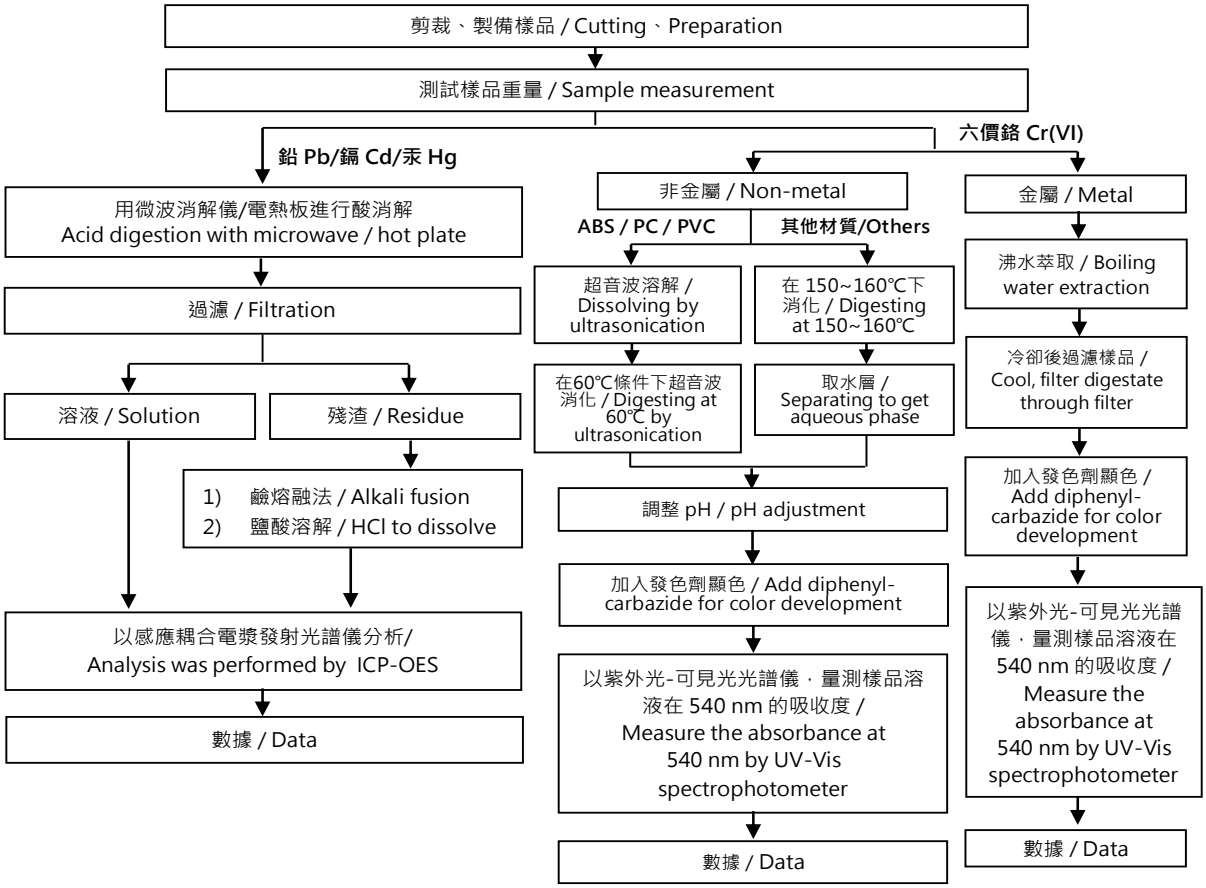
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重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

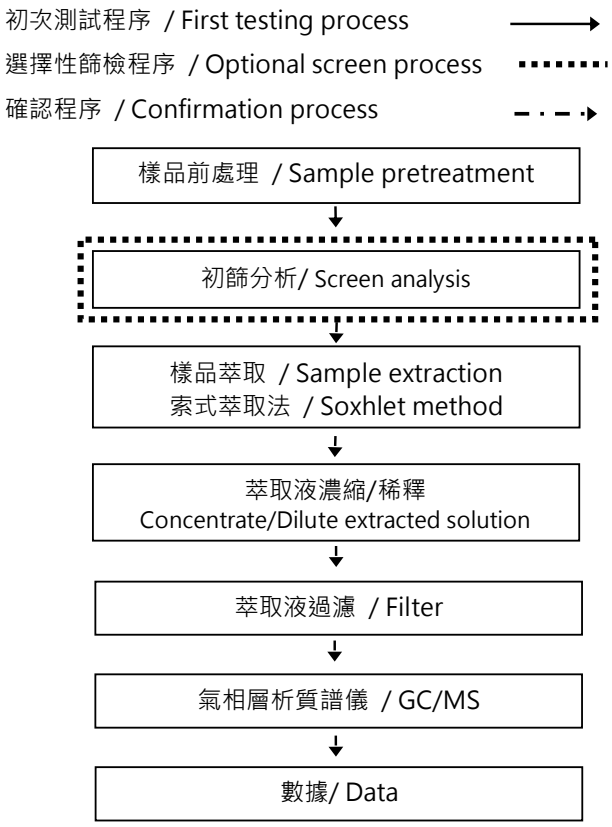
These samples were dissolved totally by pre-conditioning method according to below flow chart.
（Cr^{6+} test method excluded）



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

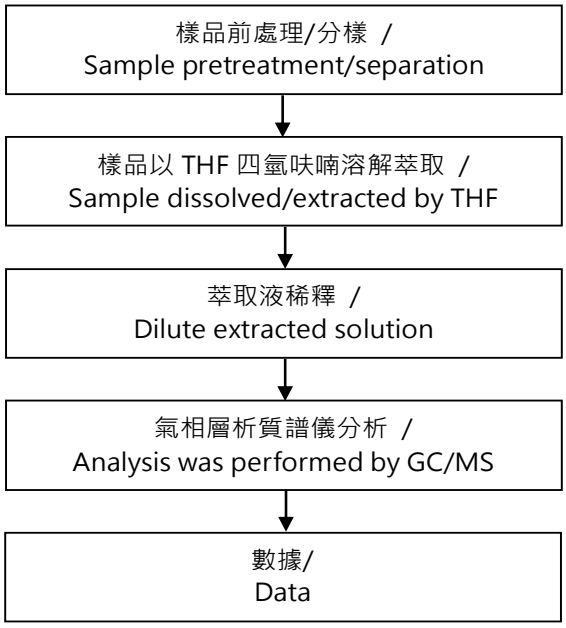


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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



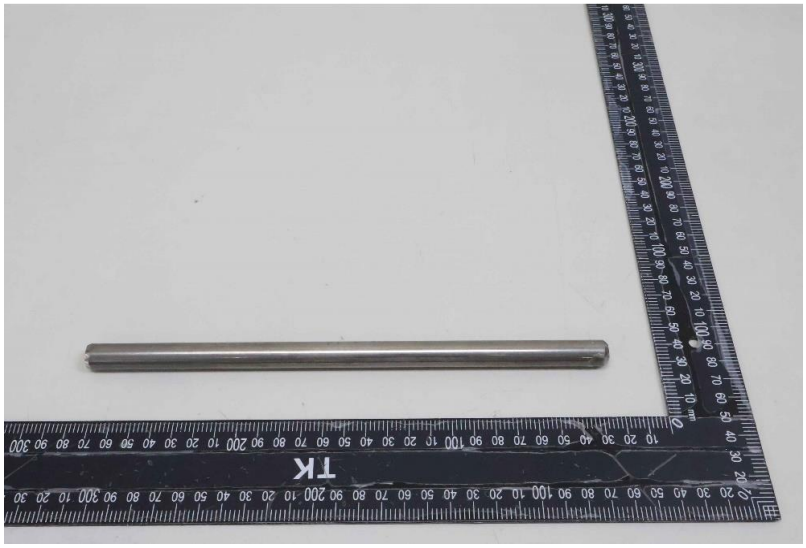
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測試報告
Test Report

巨昌金屬股份有限公司 (GEU CHONE METAL CO., LTD.)
新北市五股區四維路27巷1號 (NO. 1, LANE 27, SIWEI RD., WUGU SHIANG, TAIPEI 248014, 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.)

ETR24100045



** 報告結尾 (End of Report) **

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