



設計驗證
工程課
2025-01-15
發行
鈺緯科技開發股份有限公司





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工程課
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雄業實業股份有限公司

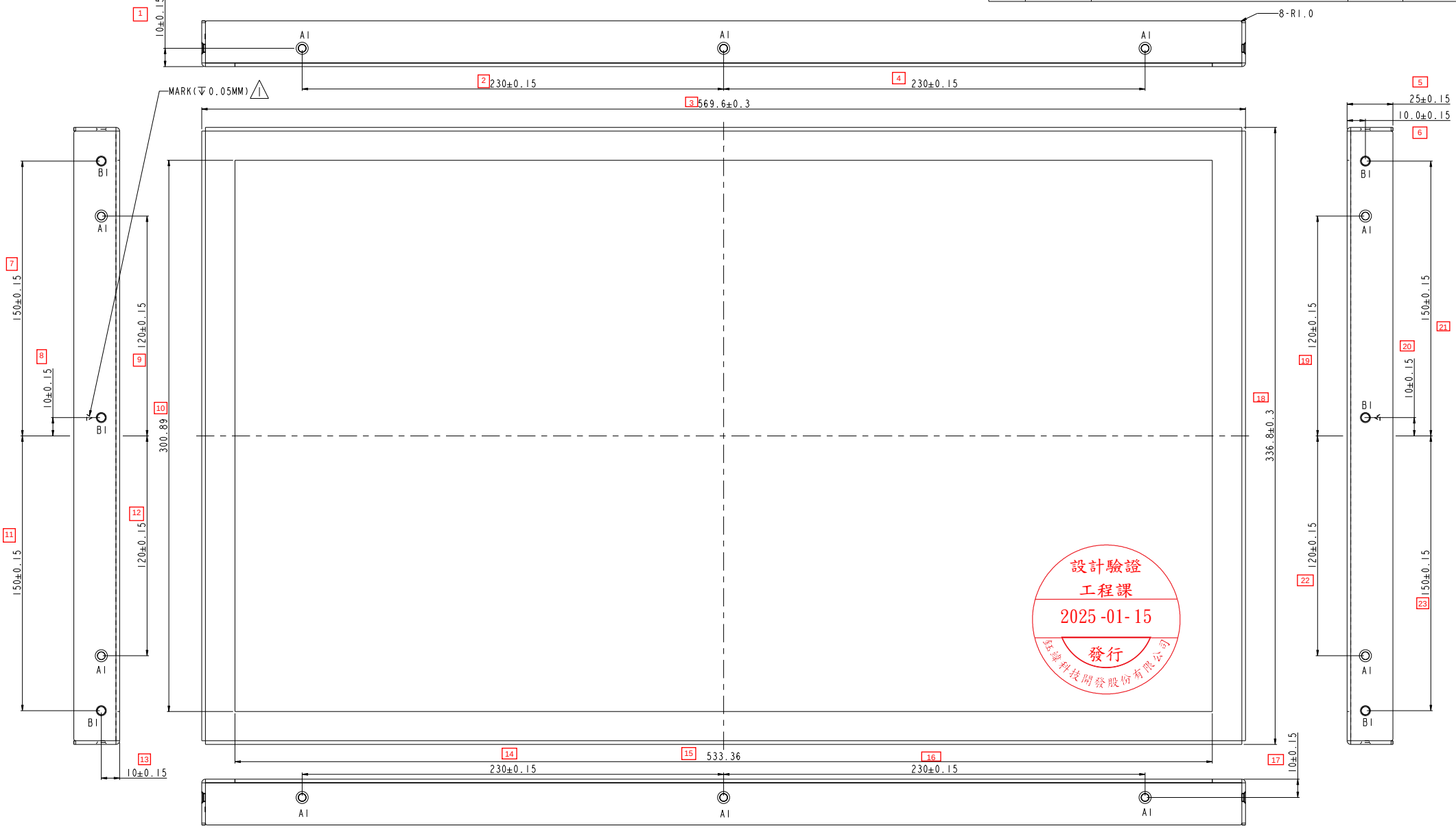
樣 品 承 認 書

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：	3MDLDWME010(M1853)
品　　名：	BEZEL
日　　期：	114/1/10
送樣數量：	3　　PCS

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REV.	DATE	DESCRIPTION	BY	APVD
1	2024/7/4	ADD NOTES & MARK	OWEN	



I	3MDLDWME010	A1	B1	TTK	MI853	CL24001-C0D01
	PART No. / LOCATION / STAND OFF / HOLE	Φ4.2 Φ6.6 HOLE "A"	C0.5 Φ4.5 HOLE "B"	USED ON	APPD No.	REMARK

△5.GLOVES MUST BE WORN DURING WORK
4.NO MENTION TOLERRANCE:±0.2
3.DISTORTION<1.0MM
2.NO OIL ON SURFACE.
Notes:1.BURRY<0.03MM

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION V		
	fine	medium	coarse
UP TO 3	±0.05	±0.1	±0.2
OVER 3-6	±0.05	±0.1	±0.3
OVER 6-30	±0.1	±0.2	±0.5
OVER 30-120	±0.15	±0.3	±0.8
OVER 120-400	±0.2	±0.5	±1.2
OVER 400-1000	±0.3	±0.8	±2.0
OVER 1000-2000	±0.5	±1.2	±3.0
OVER 2000-4000	-	±2.0	±8.0
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

DSGD by	LEON HU	Jun-18-24	
CHK by			
APVD by		2024-12-31	
APVD NO.: MI853	3D FILE NAME: BEZEL		

UNITS: mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: CL24001-C0D01
MATERIAL: AL5052 T=2.0	TREATMENT: ANODIZING(BLACK)		
PART NAME: BEZEL			
DIVA P/N: 3MDLDWME010			
Qisda NO.:			

DIVA Laboratories ,Ltd.

Test Result	

DIVA FAI DATA SHEET

Part Number :	3MDLDWME010 (M1853)	Supplier :	雄業	Date:	2025/1/6
Part Description :	BEZEL			Cavity / Tool # :	
Revision :	0	Material Spec:	AL5052 T=2.0mm	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 Tester, TG = Thickness Gauge, VIS = V D (M1853)

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	A2	10.00	0.15	0.15		10.020	10.000	10.000	0.020	0.000	0.000	10.007	13%	0%				
2	B5	230.00	0.15	0.15		230.000	230.040	230.020	0.000	0.040	0.020	230.020	27%	0%				
3	B6	569.60	0.30	0.30		569.650	569.580	569.600	0.050	-0.020	0.000	569.610	17%	7%				
4	B8	230.00	0.15	0.15		230.040	230.060	230.020	0.040	0.060	0.020	230.040	40%	0%				
5	B12	25.00	0.15	0.15		25.020	25.000	25.030	0.020	0.000	0.030	25.017	20%	0%				
6	B12	10.00	0.15	0.15		10.030	10.000	10.000	0.030	0.000	0.000	10.010	20%	0%				
7	C1	150.00	0.15	0.15		150.000	150.040	150.020	0.000	0.040	0.020	150.020	27%	0%				
8	D1	10.00	0.15	0.15		9.980	10.020	10.000	-0.020	0.020	0.000	10.000	13%	13%				
9	D2	120.00	0.15	0.15		120.030	119.980	120.000	0.030	-0.020	0.000	120.003	20%	13%				
10	D2	300.89	0.50	0.50		300.900	300.920	300.880	0.010	0.030	-0.010	300.900	6%	2%				
11	E1	150.00	0.15	0.15		150.030	150.000	150.010	0.030	0.000	0.010	150.013	20%	0%				
12	E2	120.00	0.15	0.15		120.000	120.040	120.020	0.000	0.040	0.020	120.020	27%	0%				
13	G2	10.00	0.15	0.15		10.040	10.000	10.020	0.040	0.000	0.020	10.020	27%	0%				
14	G6	230.00	0.15	0.15		230.060	230.030	230.050	0.060	0.030	0.050	230.047	40%	0%				
15	G6	533.36	0.80	0.80		533.300	533.250	533.280	-0.060	-0.110	-0.080	533.277	0%	14%				
16	G8	230.00	0.15	0.15		230.040	230.080	230.060	0.040	0.080	0.060	230.060	53%	0%				
17	G11	10.00	0.15	0.15		10.020	9.980	10.000	0.020	-0.020	0.000	10.000	13%	13%				
18	D11	336.80	0.30	0.30		336.900	336.880	336.920	0.100	0.080	0.120	336.900	40%	0%				
19	D11	120.00	0.15	0.15		120.020	120.040	120.000	0.020	0.040	0.000	120.020	27%	0%				
20	D12	10.00	0.15	0.15		10.000	10.020	10.000	0.000	0.020	0.000	10.007	13%	0%				
21	C12	150.00	0.15	0.15		150.010	150.030	150.020	0.010	0.030	0.020	150.020	20%	0%				
22	E11	120.00	0.15	0.15		120.000	120.040	120.010	0.000	0.040	0.010	120.017	27%	0%				
23	E12	150.00	0.15	0.15		150.020	150.000	150.000	0.020	0.000	0.000	150.007	13%	0%				
		以下空白																

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

中鋼鋁業股份有限公司 (C.S. ALUMINIUM CORPORATION)
高雄市小港區東林路17號 (NO.17 TUNG LIN ROAD ,HSIAOKANG DISTRICT, KAOHSIUNG CITY)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	中鋼鋁業股份有限公司 (C.S. ALUMINIUM CORPORATION)
樣品名稱(Sample Name)	:	ALUMINIUM PLATE /SHEET (鋁板/片)
樣品型號(Style/Item No.)	:	ALUMINIUM ALLOY 5052

==========

收件日(Sample Receiving Date)	:	30-May-2024
測試期間(Testing Period)	:	30-May-2024 to 07-Jun-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.)

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

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

CHECK REPORT
PIN CODE: 94B0F8E6

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測試報告
Test Report

中鋼鋁業股份有限公司 (C.S. ALUMINIUM CORPORATION)
高雄市小港區東林路17號 (NO.17 TUNG LIN ROAD ,HSIAOKANG DISTRICT, KAOHSIUNG CITY)

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬 (SILVER COLORED METAL)

測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd))	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))		mg/kg	2	12.3	1000
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.	1000
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.	1000

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
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.	1000
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.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	1000

(M1853)

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備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. (#2) =
   a. 當六價鉻結果大於0.13 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.)
6. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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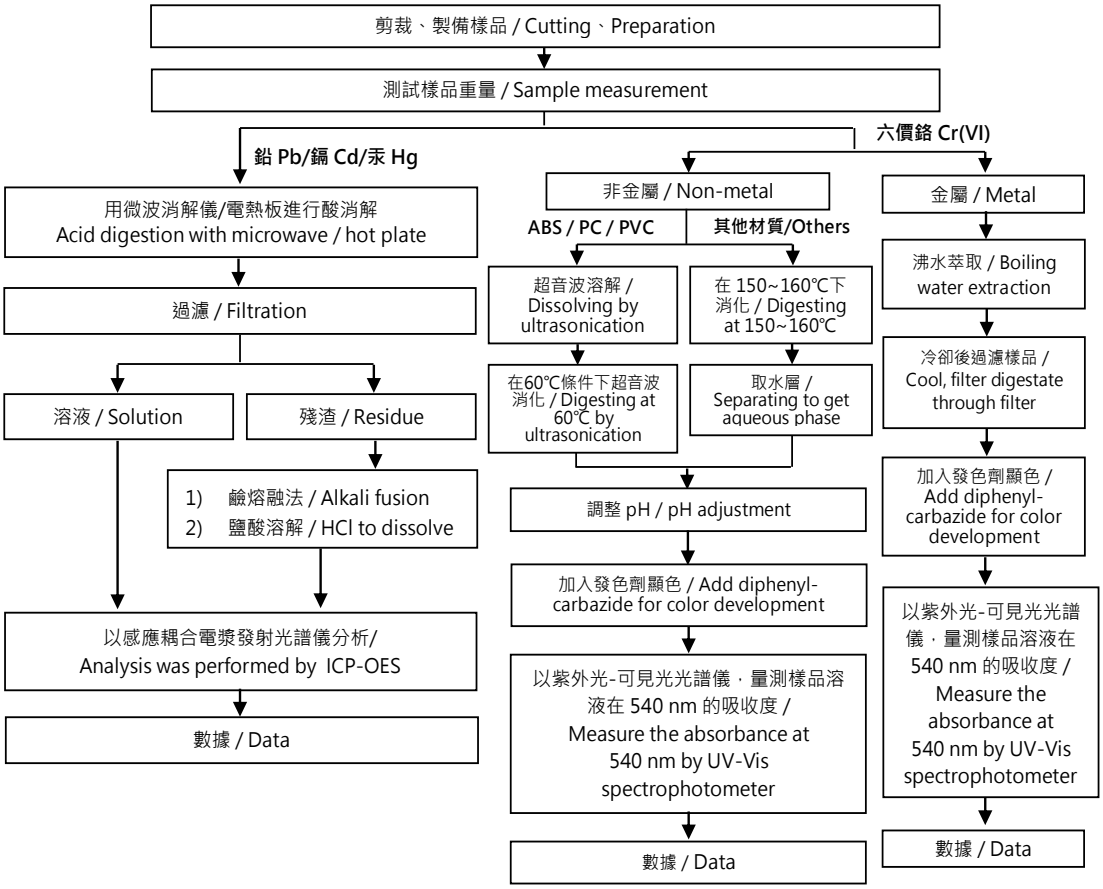
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高雄市小港區東林路17號 (NO.17 TUNG LIN ROAD ,HSIAOKANG DISTRICT, KAOHSIUNG CITY)

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.

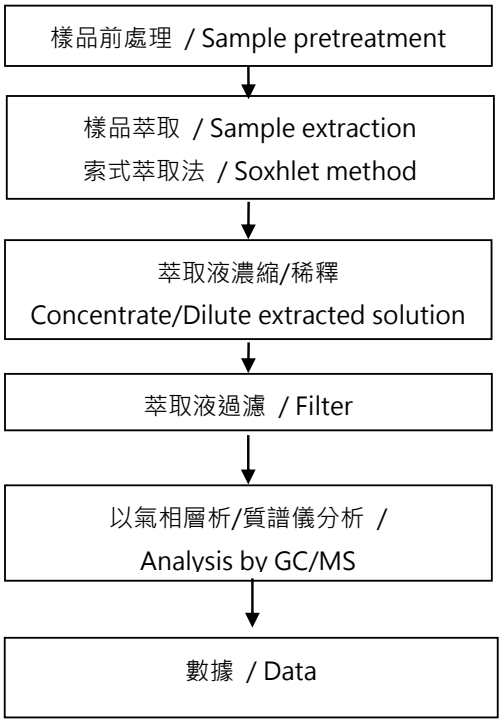
（Cr^{6+} test method excluded）



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

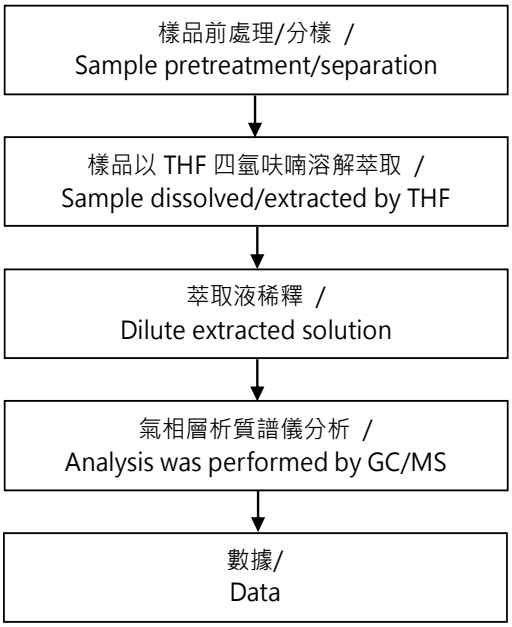


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高雄市小港區東林路17號 (NO.17 TUNG LIN ROAD ,HSIAOKANG DISTRICT, KAOHSIUNG CITY)

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

【測試方法/Test method: IEC 62321-8】



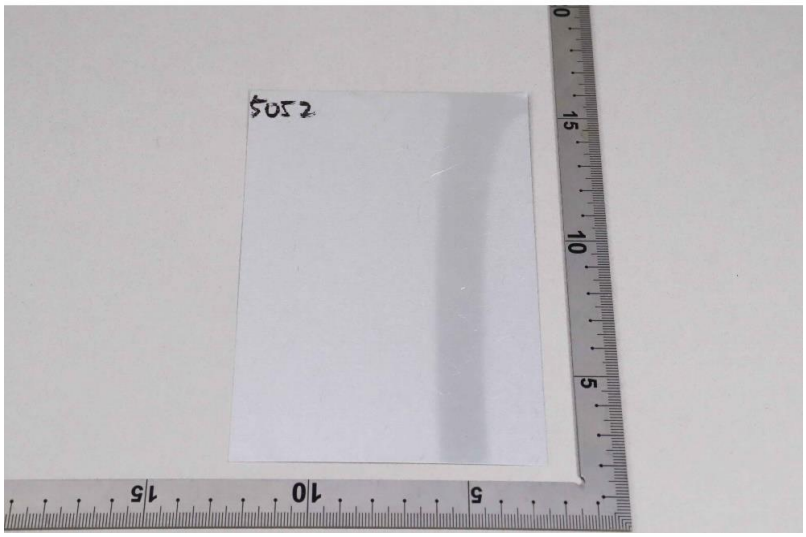
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測試報告
Test Report

中鋼鋁業股份有限公司 (C.S. ALUMINIUM CORPORATION)
高雄市小港區東林路17號 (NO.17 TUNG LIN ROAD ,HSIAOKANG DISTRICT, KAOHSIUNG CITY)

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EKR24501928



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測試報告
Test Report

號碼(No.): EKR24501941　　日期(Date): 07-Jun-2024　　

中鋼鋁業股份有限公司 (C.S. ALUMINIUM CORPORATION)
高雄市小港區東林路17號 (NO.17 TUNG LIN ROAD ,HSIAOKANG DISTRICT, KAOHSIUNG CITY)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By)	:	中鋼鋁業股份有限公司 (C.S. ALUMINIUM CORPORATION)
樣品名稱(Sample Name)	:	ALUMINIUM PLATE /SHEET (鋁板/片)
樣品型號(Style/Item No.)	:	ALUMINIUM ALLOY 5052

==========

收件日(Sample Receiving Date)	:	30-May-2024
測試期間(Testing Period)	:	30-May-2024 to 07-Jun-2024

測試需求(Test Requested) : 依據客戶指定，測試鹵素-氟、氯、溴、碘。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

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

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

CHECK REPORT
PIN CODE: BC7877B9

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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
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.

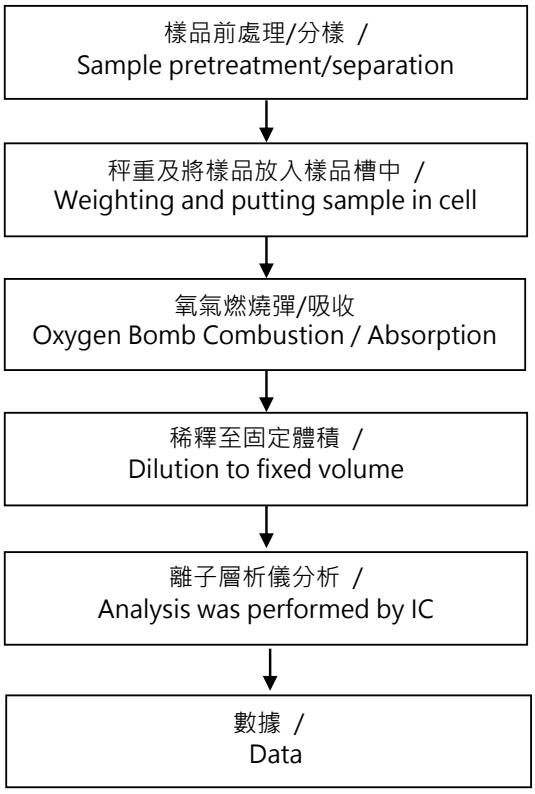
備註(Note)：

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

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



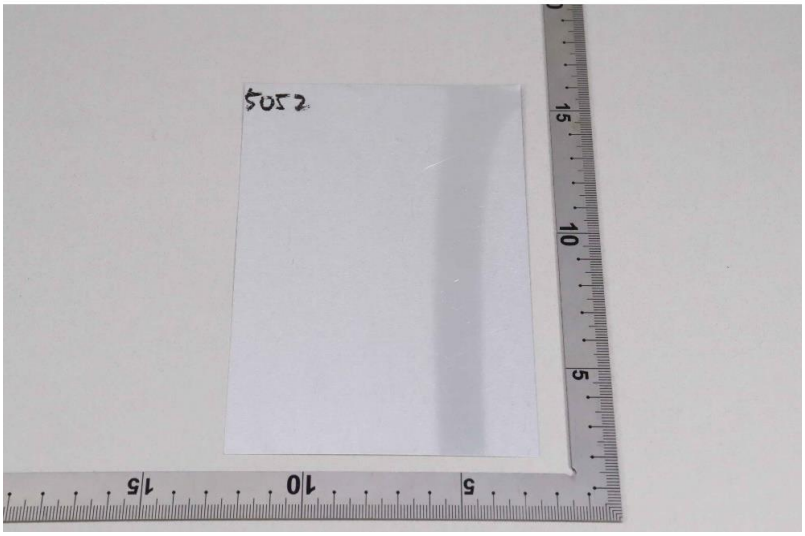
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Safety Data Sheet

REVISION DATE：01/02/2024

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME： Aluminum Alloy

CATALOG CODE： 5XXX Series Alloys

MANUFACTURER：

C.S Aluminium Corporation NO.17 Tung Lin Road Hsiao Kang Kaohsiung,812 Taiwan.R.O.C

Tel：886(7)871-8666

Fax：886(7)872-1967

SECTION 2 – HAZARDS IDENTIFICATION

Health：1

Flammability：1

Reactivity：1

Precautionary statements：

This product is present in a massive form as an alloys. Aluminum alloys are alloys in which aluminum (Al) is the predominant metal. Aluminum alloys are considered an “article” and not hazardous in its solid form. Fine particles from processing (such as cutting, sawing, welding, grinding, polishing, milling, and machining) may be readily ignitable.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Typical Percent (Wt %)	CAS Numbers
Aluminum (Al)	Rem.	7429-90-5
Silicon (Si)	<0.40	7440-21-3
Iron (Fe)	<0.70	7439-89-6
Copper (Cu)	<0.20	7440-50-8
Manganese (Mn)	<1.00	7439-96-5
Magnesium (Mg)	0.50-5.0	7439-95-4
Zinc (Zn)	<0.25	7440-66-6

SECTION 4 – FIRST AID MEASURES

SKIN：For minor burns, apply cold water. For severe burns, seek immediate medical attention.

EYE：Immediately flush with water for 15 minutes. Seek medical attention if irritation persists.

INHALATION：Remove to fresh air.

INGESTION：None necessary.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABILITY：YES? NO? X

FLASH POINT (Method Used)：N/A

WHAT CONDITIONS? N/A

UEL：N/A

LEL：N/A

MEANS OF EXTINCTION：

This product is non-combustible in bulk form. For fires involving aluminum fines or chips, use dry sand or Class D extinguishing agents approved for this use. DO NOT USE water or other liquids, foam, or halogenated extinguishing agents.

SPECIAL PROCEDURES：

Suspended aluminum dust, allowed to accumulate in a confined area, may be explosive. If remelted, moisture present in cavities or on external surfaces may cause an explosion.

AUTO IGNITION TEMPERATURE：N/A

HAZARDOUS COMBUSTION PRODUCTS：None known

SENSITIVITY TO STATIC DISCHARGE：None known

SENSITIVITY TO IMPACT：None known

ND = NOT DETERMINED N/A = NOT APPLICABLE

SECTION 6 – ACCIDENTAL RELEASE MEASURES

These products are solid aluminium sheets and plates, with no spill or leak hazards.

Put on appropriate personal protective equipment (see section 8).

PERSON-RELATED SAFETY PRECAUTIONS：Put on appropriate personal protective equipment (see section 8).

ENVIRONMENTAL PRECAUTIONS：

Collect scrap for recycling. (Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.) Ensure adequate ventilation.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP：

Sweep or vacuum up and place in an appropriate closed container. Avoid generating dust.

SECTION 7 – HANDLING AND STORAGE

HANDLING PROCEDURES：

Ensure good ventilation and exhaust at the workplace. In the case of operations generating dust, avoid excessive generation of dust or prolonged contact with skin and eyes.

STORAGE REQUIREMENTS：Tightly closed. In a cool, dry location. Remelting of return material for re-use, make certain no water or moisture is present in cavities or on external surfaces.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS：

If ventilation is used to convey aluminum dust, generated by grinding, sawing, etc., special ventilation procedures may be necessary to avoid explosion hazards**.**

PERSONAL PROTECTIVE EQUIPMENT：

GLOVES：As needed.

EYEWEAR：Safety glasses, goggles, face shield, or welding helmet, etc., as needed.

RESPIRATORY：Use NIOSH/MSHA-approved respirator for dusts/fume/mist, if TLVs or PELs are exceeded.

FOOTWEAR：Safety shoes, as needed.

CLOTHING：Appropriate protective work clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE：Solid	FLASHPOINT：N/A
APPEARANCE/ODOR：Odorless, silvery gray color	VAPOR PRESSURE：N/A
ODOR THRESHOLD：N/A	VAPOR DENSITY：N/A
pH：N/A	EVAPORATION RATE：N/A
SPECIFIC GRAVITY：2.5-2.9 g/cm^3	COEFFICIENT OF WATER/OIL DIST：N/A
MELTING POINT：568℃-660℃	SOLUBILITY IN WATER：N/A
BOILING POINT：N/A	AUTOIGNITION TEMPERATURE：N/A

SECTION 10 – CHEMICAL STABILITY AND REACTIVITY INFORMATION

CHEMICAL STABILITY：Stable

REACTIVITY AND UNDER WHAT CONDITIONS：

If remelted, moisture present in cavities or on external surfaces may cause an explosion. Bulk aluminum dust when damp may heat spontaneously.

INCOMPATIBILITY TO OTHER SUBSTANCES：YES

For aluminum fines: water, Strong acids, strong bases, strong oxidizers, metal oxides, and halogenated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS：

Finely divided aluminum reacts with water, some acids, and alkalis to produce hydrogen gas. Aluminum in contact with halogenated compounds can produce violent reactions and/or explosions.

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTE(S) OF ENTRY

INHALATION：YES

INGESTION：NO

SKIN ABSORPTION：NO

EYE CONTACT：YES

EFFECTS OF ACUTE EXPOSURE：

Aluminum is considered a nuisance particulate. Welding or machining aluminum may generate dusts and fumes which may cause eye, nose, and throat irritation. Generally, if exposures for aluminum oxide are kept below the exposure limit, the alloy components should not present a health risk. Ozone may be emitted as a by-product during welding or plasma arc cutting. Exposure to ozone may produce irritation to eyes, nose, and throat. Welding and/or plasma arc cutting of aluminum alloys generates ultraviolet radiation which can cause skin burns or welders flash to unprotected skin and eyes.

EFFECTS OF CHRONIC EXPOSURE：

Prolonged exposure to ozone may result in nausea, headache, and pulmonary damage. Chromium and certain of its compounds are classified as carcinogens in the latest Annual Report on Carcinogens as published by the National Toxicology Program (NTP) and by the International Agency for Research on Cancer (IARC).

LD50 OF PRODUCT：	LC50 OF PRODUCT：
Aluminum：>5000 mg/kg (Aluminum oxide / Orl-Rat)	Aluminum：Not known
Silicon：3160 mg/kg (Orl-Rat)	Silicon：Not known
Iron：984 mg/kg (Orl-Rat)	Iron：Not known
Copper：3.5 mg/kg (Orl-Rat)	Copper：Not known
Manganese：>9000 mg/kg (Orl-Rat)	Manganese：Not known
Magnesium：230 mg/kg (Orl-Rat)	Magnesium：Not known

IRRITANCY OF PRODUCT：Mild

EXPOSURE LIMITS OF PRODUCT：Use levels for aluminum shown in Section 2.

SENSITIZATION TO PRODUCT：None known

SYNERGISTIC MATERIALS：None known

CARCINOGENICITY：NTP, IARC, ACGIH

REPRODUCTIVE EFFECTS：None known

TERATOGENICITY：None known

MUTAGENICITY：None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE：

Pre-existing upper respiratory and lung diseases such as, but not limited to, Bronchitis, Emphysema, and Asthma.

SECTION 12 – ECOLOGICAL INFORMATION

TOXICITY：Aluminum can be recycled. Aluminum alloys under solid form, such as ingots, coil or sheets, do not present any hazard for the environment because metals are not biologically available.

BIOACCUMULATIVE POTENTIAL：None available.

MOBILITY IN SOIL：None available.

OTHER ADVERSE EFFECTS：*None availab*le.

SECTION 13 – DISPOSAL INFORMATION

WASTE DISPOSAL：

For disposal of this material as a waste, act in accordance with all applicable federal, state, and local waste management regulations.

SECTION 14 – TRANSPORTATION INFORMATION

SPECIAL SHIPPING INFORMATION：None known

SECTION 15 – REGULATORY INFORMATION

SARA

This product contains a chemical or chemicals subject to the reporting requirements of **Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.**

SECTION 16 – OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which this Company believes to be currently reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use. Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

物質安全資料表

一、物品與廠商資料

物品名稱(英文)： BLACK

物品名稱(中文)：酸性 BLACK

物質或混合物的相關已知用途或避免使用狀況

物質建議用途：染色工業

請依現行法律所提供的化學品安全衛生及環境保護規範來運作本產品的儲存及處理。

危害物質資訊(NFPA-HMIS):

健康危害	1	輕度危害
易燃性	1	可燃物
化學反應性	1	若受熱會不穩定
個人防護設備	E	安全眼鏡、手套及防塵口罩

製造商或供應商名稱、地址及電話：

勝發研磨材料有限公司

二、危害辨識資料

物質或混合物的分類：

歐盟危害分類(1999/45/EC)：

R36/37/38: 刺激眼部、呼吸系統及皮膚

GHS 分類：

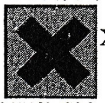
腐蝕/刺激皮膚物質 第 2 級

嚴重損傷/刺激眼睛物質 第 2 級

特定標的器官毒性物質-單一暴露 第 3 級

標示要項：

歐盟危害分類 (1999/45/EC) ：



Xn:危害

歐盟物質危害警語：

R36/37/38 刺激眼部、呼吸系統及皮膚

GHS 符號內容：

警示詞：警告

符號 / 危害警告訊息



H315 導致皮膚刺激

H335 可能導致呼吸作用的刺激

無 H320 導致眼睛刺激

危害防範措施：

P103 使用前請先閱讀標示

P261 避免吸入灰塵\濃煙\氣體\水氣\水蒸氣\噴霧

P264 操作後徹底清洗雙手

P271 只能在戶外或通風良好處使用

續第 2 頁

物質安全資料表

承第 1 頁

P280 穿戴防護手套\防護衣\眼睛防護器具\臉部防護器具

防護建議事項：

P302+P352 如果沾染在皮膚上：以大量肥皂和水清洗

P305+P351+P338 如果進到眼睛裡：用水持續清洗數分鐘，如果戴隱形眼鏡且可方便取出則將其取出，並持續沖洗

P332+P313 如果發生皮膚刺激：求醫治療或諮詢

P337+P313 如果眼睛刺激持續：求醫治療或諮詢

P362 脫除遭污染的衣物，再次使用前須先清洗

儲存建議事項：

P403+P233 儲存在通風良好處，保持容器緊閉

P405 儲存在上鎖的地方

其他事項：

無

三、成分辨識資料

化學性質：酸性偶氮染料

組成物	CAS/ EC/ REACH No.	歐盟法規 (67/548/EEC)	GHS 法規	重量百分比
Acid Black 1	CAS No. 1064-48-8 EC No. 213-903-1 REACH No. 05-2114277476-37-0000	Xn R36/37/38	皮膚刺激 2; H315 眼睛刺激 2B; H320 特定器官單一暴露. 3; H335	55-60

四、急救措施

不同暴露途徑之急救方法：

吸　　入：1.移走污染源，將患者移至新鮮空氣處。2.若呼吸困難，最好在醫生指示下由受過訓練的人供給氧氣。3.若患者停止呼吸，立即由受訓過的人員施予人工呼吸。4.立刻就醫。

皮膚接觸：1.用緩和流動的溫水沖洗患部 15 分鐘以上。2.沖洗時脫掉污染的衣物、鞋子及飾品。3.若污染範圍很大或沖洗後仍覺不適，立刻就醫。

眼睛接觸：1.立即撐開眼皮，用清水沖洗 20 分鐘以上。2.若沖洗後仍有刺激感，再反覆沖洗。3.立即就醫。

食　　入：1.以水清洗患者口腔，若意識清醒，給患者喝大量水或牛奶。2.將患者送至緊急之醫療單位。

最重要症狀及危害效應：無相關資訊

對急救人員之防護：戴防滲手套，以免接觸污染物。

對醫師之提示：視患者主要症狀，給予適當醫療。

五、滅火措施

適用滅火劑：水、泡沫或乾粉滅火。

滅火時可能遭遇之特殊危害：無相關資訊

特殊滅火程序：1、滅火人員應穿著保護設備及正壓式全面型供氣式呼吸防護具。2、將暴露容器從火場移走，但須無危險顧慮。3、用水將暴露火源容器冷卻，但水不可進入容器內部。

消防人員之特殊防護設備：消防人員必須著耐化學的防護衣，並佩帶正壓空氣呼吸器(自攜式呼吸防護具)

六、洩漏處理方法

個人應注意事項：1、穿戴全身防護衣物。2、關閉所有發火源，區域內無火焰及吸煙。3、以水沖洗外洩區。4、

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物質安全資料表

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請勿吸入粉塵。
環境注意事項：1.對該區域進行通風換氣。2.撲滅或去除所有發火源。3.通知政府安全衛生與環保單位。4.避免外洩物進入下水道或密閉的空間。
清理方法：1、回收。2、廢水處理。3、交由合格廢棄物清理商依現行法規處理。

七、安全處置與儲存方法

處置： 1.在通風良好處使用。 2.分裝時小心不要從容器中噴灑出來。 3.操作時著個人防護具。
儲存： 1.儲存在陰涼、乾燥、通風良好以及陽光無法直接照射處。 2.定期檢查儲存容器是否有破損或溢漏。

八、暴露預防措施

工程控制：無相關資訊
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：無相關資訊 ˙生物指標：無相關資訊
個人防護設備：
˙呼吸防護：通風良好及個人防護裝備活性碳口罩是必需的。 ˙手部防護：手套需可耐酸鹼、腐蝕。 ˙眼睛防護：穿戴化學安全護目鏡。 ˙皮膚及身體防護：穿著防護衣。 
衛生措施：1、上工前，換工作服，著個人防護裝備。2、作業完畢，清洗防護裝備，並保持在堪用狀態，濾毒罐隨時更新，手套注意是否破損。3、受污衣物，須立刻除去，並以清潔劑清洗，洗淨後才可再穿戴，且須告知洗衣人員污染物之危害性。4、必要時，隨時以清潔劑洗手。5、工作場所嚴禁抽煙或飲食。6、離開工作場所下工前，須依規定全身淋浴後，更換乾淨衣服，換下衣物，須清洗乾淨後才能再穿。7、維持作業場所清潔。

九、物理及化學性質

物質狀態： 粉末	顏色：藍黑色
pH 值：8.8	氣味：無
分解溫度：無相關資訊	沸點/熔點範圍：無相關資訊
自燃溫度：無相關資訊	閃火點：無相關資訊
蒸氣壓：無相關資訊	爆炸界限：無相關資訊
比重：無相關資訊	蒸氣密度：無相關資訊
假比重：830 kg/m3	溶解度： 40 g/l

十、安定性及反應性

安定性：正常的溫度及壓力下安定。
特殊狀況下可能之危害反應：無相關資訊.
應避免之狀況：受熱、火焰、其它發火源。
應避免之物質：強氧化劑、強酸及強鹼。

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物質安全資料表

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危害分解物：無相關資訊

十一、毒性資料

急毒性：
LD50(大鼠、口食)： 無相關資訊
LC50：(96hr) >180 mg/L

皮膚刺激：刺激

眼睛刺激：刺激

慢毒性或長期毒性：尚無資料顯示其具有危害性。

特殊效應：無相關資訊

十二、生態資料

其他影響生態資料：

COD 值：	568 mg/l
AOX：	廢水排放量：低於 0.2ppm
	污泥：最大值 0.5ppm
TOC：	42.7 %
VOC：	無 VOC
重金屬：	皆低於 ETAD 規範檢測極限以下。
生物降解性	無相關資訊

十三、廢棄處置方法

廢棄處置方法：
1、回收。
2、廢水處理。
3、交由合格廢棄物清理商依現行法規處理。

十四、運送資料

路運運輸規範：	無相關規定
河川運輸規範：	無相關規定
海運運輸規範：	無相關規定
空運運輸規範：	無相關規定
備　　註：	本產品屬一般化學物品，並無特殊運送規定。
其他資訊：	詳細資料可參考 1.道路交通安全規則第 84 條 2.船舶危險品裝載細則 3.台灣鐵路局危險品裝卸運輸實施細則

十五、法規資料

本國適用法規：
勞工安全衛生設施規則、事業廢棄物貯存清除處理方法及設施標準、危險物及有害物通識規則、道路交通安全規則。

美國法規：
TSCA INVENTORY STATUS: 有登記
TSCA 12(b) EXPORT NOTIFICATION: 無
CERCLA SECTION 103 (40CFR302.4): 無
SARA SECTION 302 (40CFR355.30): 無

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物質安全資料表

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SARA SECTION 304 (40CFR355.40): 無
SARA SECTION 313 (40CFR372.65): 無
OSHA PROCESS SAFETY (29CFR1910.119): 無
STATE REGULATIONS:
California Proposition 65: 無
歐盟法規：
REACH 預註冊:有登記
化學安全評估：
是否已遞交化學安全評估(歐盟): 無

十六、其他資料

參考文獻	1. Material Safety Data，Sigma Chemical Co.光碟。 2. MSDS-OHS，STN 資料庫。 3. 危害化學物質中文資料庫，環保署。	
MSDS 最後修改資訊	1.更新第 欄與第十五欄呈現的方式。 2.第十五欄增加化學安全評估資訊。	
製表單位	名稱：勝發研磨材料有限公司	
	地址/電話：	
製 表 人	職稱：工程師	姓名(簽章)：徐彩華
備註	上述資料由公開的資料庫及已知的經驗整理而得，但錯誤恐仍難免，故各項數據與資料僅供參考，且不代表何保證。	

標籤上辨別危害之成份：
Acid Black 1
危害警語：
R36/37/38 刺激眼部、呼吸系統及皮膚
安全警語：
S22 不要吸入微塵
S26 接觸眼睛後立即用大量清水沖洗並求醫
S36 穿著適合的防護服
危害警告訊息：
H315 導致皮膚刺激
H320 導致眼睛刺激
H335 可能導致呼吸作用的刺激