*注意事項:

有與 PM/Morris 討論過, 接受此沙拉孔吊掛痕補漆色差

如下圖所示

設計驗證
工程課
2024.02.21
發行
宜鏈科技開發股份有限公司

檢驗記錄表

類別：☐ 面板類 ■ 機構 ☐ 電子件 ☐ PCBA ☐ 組配件 ☐ 輔包材 ☐ 其他_____

料號： 3MDLTWME180 日期： 2024/2/19

品名規格：BASE PLATE (5897 WHITE, Canvys) 數量： 173

判定： ☐ Accpet ■ Reject

主管： 李 24. 02. 19 金龍

檢驗者： 陳 24. 02. 19 金順

安規 & 其他

☐ 需要 ■ 不需要	安規：	☐ Pass	☐ Fail	說明：
		☐ Pass	☐ Fail	說明：
		☐ Pass	☐ Fail	說明：
		☐ Pass	☐ Fail	說明：
		☐ Pass	☐ Fail	說明：

電氣及功能檢測：　抽樣標準/AQL：DIVA sample 抽樣數：2

■ 需要 ☐ 不需要	Peeling test：	■ Pass	☐ Fail	說明：
☐ 需要 ■ 不需要		☐ Pass	☐ Fail	說明：

外觀檢驗(記錄不良現象及數量)　抽樣標準/AQL：G-1 / 2.5　抽樣數：20

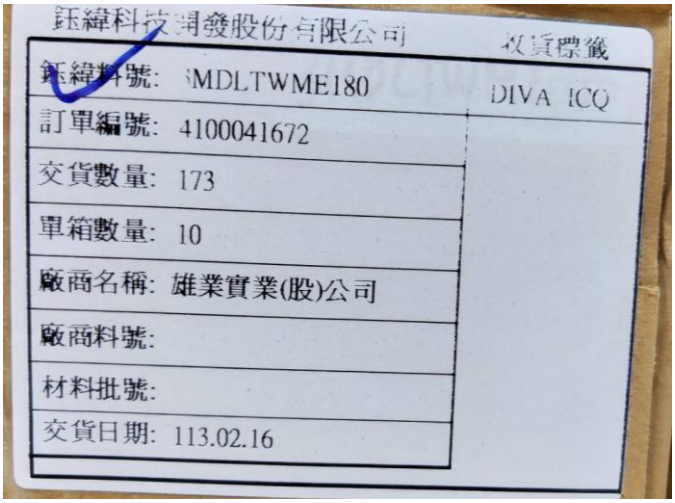
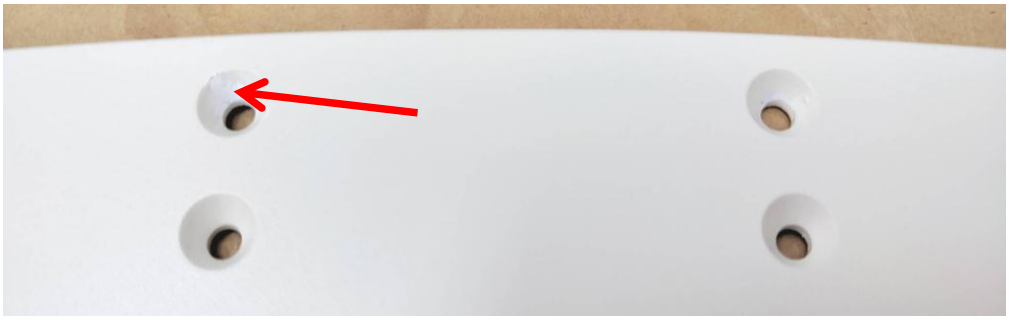
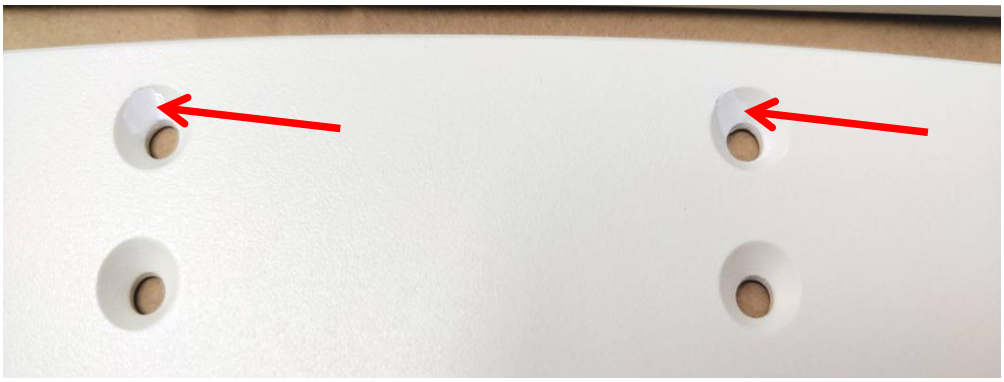
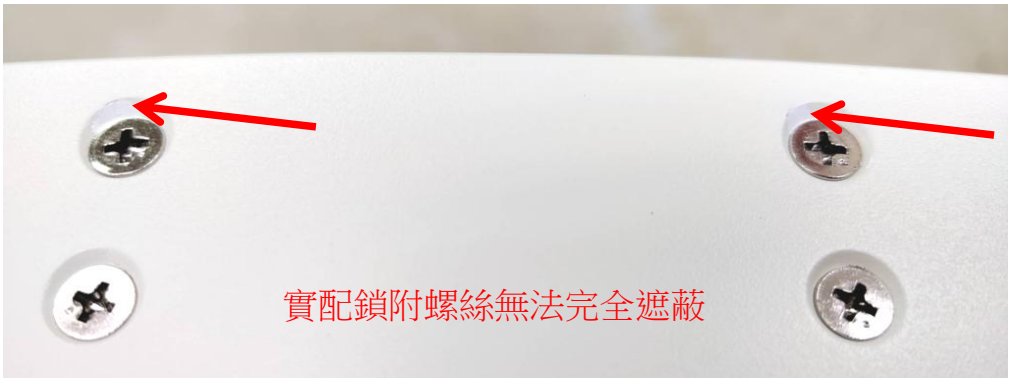
判定： ☐ Pass ■ Fail

不良現象	不良數	不良現象	不良數	不良現象	不良數
碰刮傷	0	污點和點狀不良	0	脫漆 Strip	0
噴漆異物	0	BOSS短缺破裂	0	卯釘脫落	0
沙拉孔吊掛痕補漆色差	2	加工痕	0		

量測項目　抽樣標準/AQL：S-1 / 2.5　抽樣數：5

判定： ■ Pass ☐ Fail

項目	長	寬	高	長	寬			
規格值	304.69+/-1	175+/-1	4+0.5/-0.2	71.6+/-0.3	17.15+/-0.2			
1	305.02	175.22	4.12	71.59	17.26			
2	305.02	175.14	4.08	71.56	17.28			
3	305.01	175.24	4.1	71.55	17.23			
4	304.97	175.16	4.07	71.57	17.23			
5	305	175.15	4.05	71.6	17.23			

No.	Defect description	picture1	picture2
1	沙拉孔吊掛痕 補漆色差		  





設計驗證
工程課
2024.02.21
發行
虹鏈科技開發股份有限公司

雄業實業股份有限公司

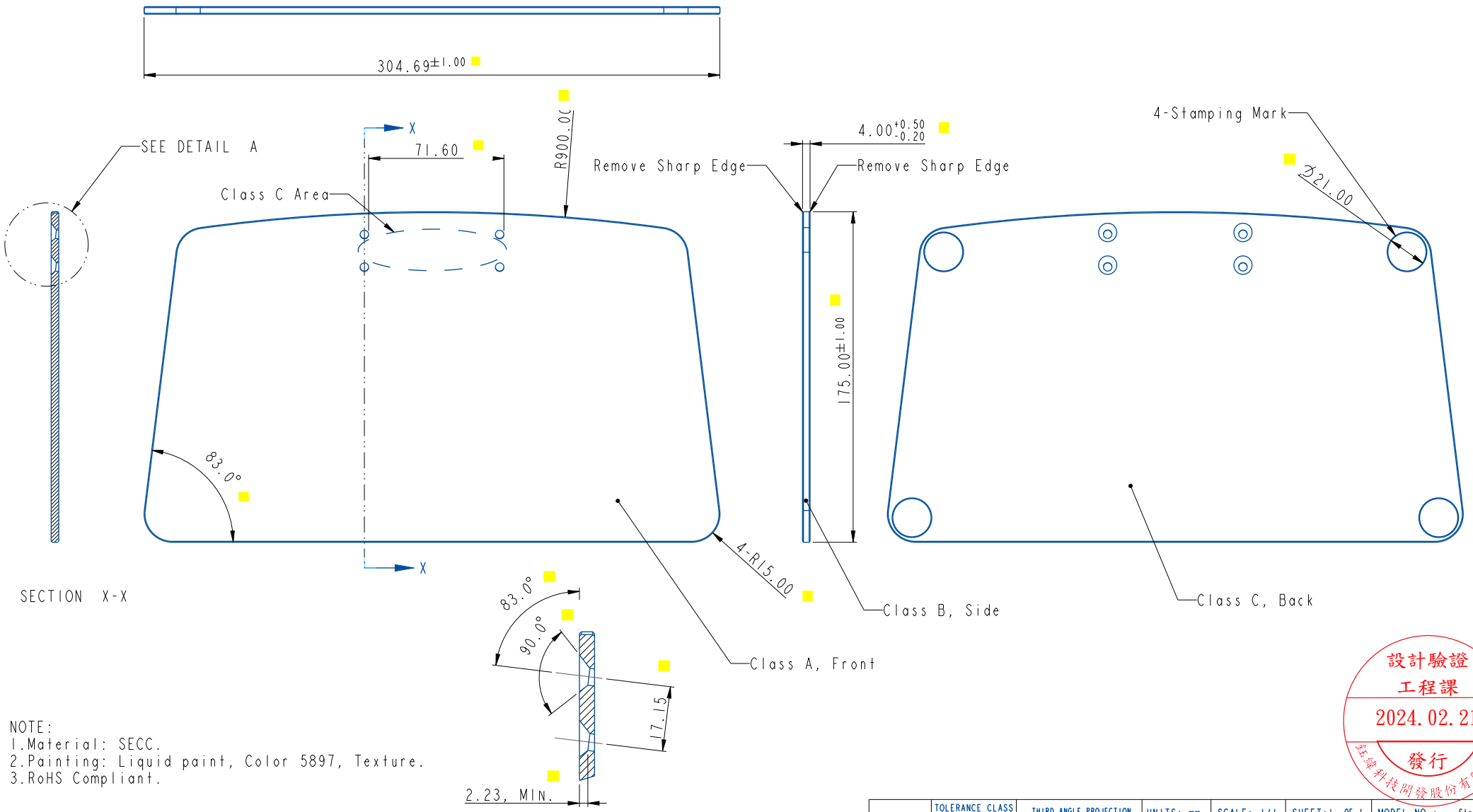
樣 品 承 認 書



客　　戶：	鈺緯
料　　號：	3MDLTWME180(M1647)
品　　名：	BASE PLATE STAND WHITE 5897
日　　期：	113/1/22
送樣數量：	3　　PCS



REV.	DATE	DESCRIPTION	BY	APVD
0	2023-12-12	RELEASE FOR PRODUCTION	Laslie	



SECTION X-X

DETAIL A
SCALE 2/1

NOTE:
1.Material: SECC.
2.Painting: Liquid paint, Color 5897, Texture.
3.RoHS Compliant.

設計驗證
工程課
2024.02.21
發行
鈺鋒科技開發股份有限公司

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	c	THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: Stand
					MATERIAL:		TREATMENT:	
UP TO 30	±0.10	±0.20	±0.50	DSGD by	Laslie	2023-12-13	PART NAME:	BASE PLATE-STAND
ABOVE 30~120	±0.15	±0.30	±0.80	CHK by	-	-		
ABOVE 120~315	±0.20	±0.50	±1.20	APVD by	-	-	PART NO.:	3MDLTWME180 REV. 0
ABOVE 315~1000	±0.30	±0.80	±2.00	APVD No. :	(M1647)	3D FILE NAME :	BASE_PLATE_STAND	DNA Laboratories ,Ltd.
ANGLE ±1° (±1.75/100)								

Test Result	

DIVA FAI DATA SHEET

Part Number :	3MDLTWME180 (M1647)	Supplier :	雄業	Date:	2024.01.22
Part Description :	BASE PLATE STAND WHITE 5897			Cavity / Tool # :	
Revision :	0	Material Spec:	酸洗板4.0	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	B4	304.69	1.00	1.00		305.100	305.100	305.300	***0.410***	***0.410***	***0.610***	***305.167***	**61%**	**0%**				
2	B4	71.60	0.30	0.30		71.780	71.750	71.750	***0.180***	***0.150***	***0.150***	***71.760***	**60%**	**0%**				
3	A1	83.00	1.00	1.00		83.400	83.500	83.400	***0.400***	***0.500***	***0.400***	***83.433***	**50%**	**0%**				
4	E6	15.00	0.20	0.20		15.100	15.130	15.100	***0.100***	***0.130***	***0.100***	***15.110***	**65%**	**0%**				
4	E6	15.00	0.20	0.20		15.120	15.130	15.120	***0.120***	***0.130***	***0.120***	***15.123***	**65%**	**0%**				
4	E6	15.00	0.20	0.20		15.130	15.130	15.120	***0.130***	***0.130***	***0.120***	***15.127***	**65%**	**0%**				
4	E6	15.00	0.20	0.20		15.130	15.120	15.130	***0.130***	***0.120***	***0.130***	***15.127***	**65%**	**0%**				
5	C5	9.00	0.20	0.20		9.120	9.100	9.100	***0.120***	***0.100***	***0.100***	***9.107***	**60%**	**0%**				
6	B7	4.00	0.50	0.20		4.300	4.200	4.100	***0.300***	***0.200***	***0.100***	***4.200***	**60%**	**0%**				
7	C7	175.00	1.00	1.00		175.640	175.620	175.640	***0.640***	***0.620***	***0.640***	***175.633***	**64%**	**0%**				
8	C11	21.00	0.20	0.20		21.120	21.120	21.100	***0.120***	***0.120***	***0.100***	***21.113***	**60%**	**0%**				
9	F4	83.00	1.00	1.00		83.500	83.500	83.600	***0.500***	***0.500***	***0.600***	***83.533***	**60%**	**0%**				
10	F4	90.00	1.00	1.00		90.500	90.400	90.400	***0.500***	***0.400***	***0.400***	***90.433***	**50%**	**0%**				
11	G6	17.15	0.20	0.20		17.240	17.260	17.250	***0.090***	***0.110***	***0.100***	***17.250***	**55%**	**0%**				
12	G5	2.23	0.20	0.20		2.350	2.360	2.360	***0.120***	***0.130***	***0.130***	***2.357***	**65%**	**0%**				

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

中國鋼鐵 CHINASTEEL

品質證明書
TEST CERTIFICATE

中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國高雄市小港區中鋼路1號
1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG 81223
TAIWAN, REPUBLIC OF CHINA
TEL: (07) 802-1111 FAX: (07) 802-2511, (07) 801-9427
E-mail: t211mae@mail.csc.com.tw

H0084-01 COMPANY REGISTRATION NUMBER: 30414175 0177

客戶名稱 CUSTOMER		產品名稱 PRODUCT	HR SHEET-COIL P-O (MILL EDGE)		
		發票號碼 INVOICE NO.	NG32436399	證明書編號 CERTIFICATE NO.	120519H0084
規格名稱 SPEC.	JIS G3131 SPHC P-O, GENERAL PURPOSES (GP). MILL EDGE.	客戶編號 CUSTOMER NO.		中鋼訂單編號 CSC ORDER NO.	JH3135C
		交運日期 SHIPPING DATE	MAY. 18, 2023	證明書日期 T/C ISSUE DATE	MAY. 19, 2023
檢驗 INSP.	CSC MILL INSPECTION. T/C 02	客戶訂單編號 CUST ORDER NO.			

項目 ITEM NO.	產品序號 LABEL NO.	尺寸 DIMENSIONS 厚度 THICK. mm	寬度 WIDTH mm	長度 LENGTH mm	數量 QTY	質量 MASS kg	爐號 HEAT	鋼捲號碼 COIL NO.	試片編號 SAMPLE ID.	拉伸試驗 *1 G.L. = 50 mm 降伏 Y.S. MPa, N/mm2	抗拉 T.S. MPa, N/mm2	伸長 EL %
002	VD42202	4.000	1219	COIL	1	20,995	6X875	5125809	5125809	217	343	46
									5125810	219	340	47
	VD42473	"	"	"	1	18,995	6X875	51258102	5125809	217	343	46
									5125810	219	340	47
	VD42805	"	"	"	1	22,400	5R022	1711139	1711139	260	387	41
			TOTAL:		3	62,390						

化學成分 CHEMICAL COMPOSITION %	C	Mn	P	S	Si	Cu	Ni	Cr	Al	B	Mo	N	Nb	Ti	V	M9	N4	備註 REMARK
	2 X10	2 X10	3 X10	3 X10	2 X10				3 X10	4 X10	2 X10	4 X10	3 X10	3 X10	3 X10	2 X10	2 X10	
002	4	16	15	5	Tr	1	1	1	52	Tr	Tr	23	Tr	1	Tr	1	3	
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
	7	33	14	3	1	Tr	1	2	38	Tr	Tr	34	Tr	1	Tr	2	4	

註釋 NOTES

*01 拉伸試驗 TENSILE TEST

M9 = CR + MO
N4 = CU + NI + CR + MO

1MPa = 1N/mm2
Al = TOTAL Al

Tr: TRACE ELEMENT WITH ITS CONTENT CONFORMING TO THE SPECIFICATION REQUIREMENTS.

SURVEYED BY

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

Shen-Chin Huang
冶金技術處處長
GENERAL MANAGER, METALLURGICAL DEPARTMENT

測試報告
Test Report

號碼(No.): EKR23701425　　日期(Date): 15-Aug-2023　　頁數(Page) : 1 of 8

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

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

送樣廠商(Sample Submitted By)	:	中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
樣品名稱(Sample Name)	:	熱軋酸洗塗油鋼捲 (HOT ROLLED PICKLED-AND-OILED COIL)
收件日(Sample Receiving Date)	:	20-Jul-2023
測試期間(Testing Period)	:	20-Jul-2023 to 15-Aug-2023

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

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

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

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

PIN CODE: 3255E741

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測試報告
Test Report

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

測試部位敘述 (Test Part Description)

No.1 : 銀灰色金屬 (SILVER GRAY 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	限值 (Limit)
鎘 (Cd) (Cadmium (Cd))	依據IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(According to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))		mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg))	依據IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(According to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 (Hexavalent Chromium) Cr(VI) (#2)	依據IEC 62321-7-1: 2015，以紫外光-可見光分光光度計分析。(According to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	μg/cm²	0.1	n.d.	-
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015自訂方法，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015 in house method, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)		mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000

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測試報告
Test Report

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

測試項目 (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自訂方法，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015 in house method, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))	依據IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(According to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))		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

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中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

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.)
7. 申請人提交的產品是用於電機電子設備之原物料。(The product from the applicant submitted is a raw material which is used for electric and electronic equipment.)

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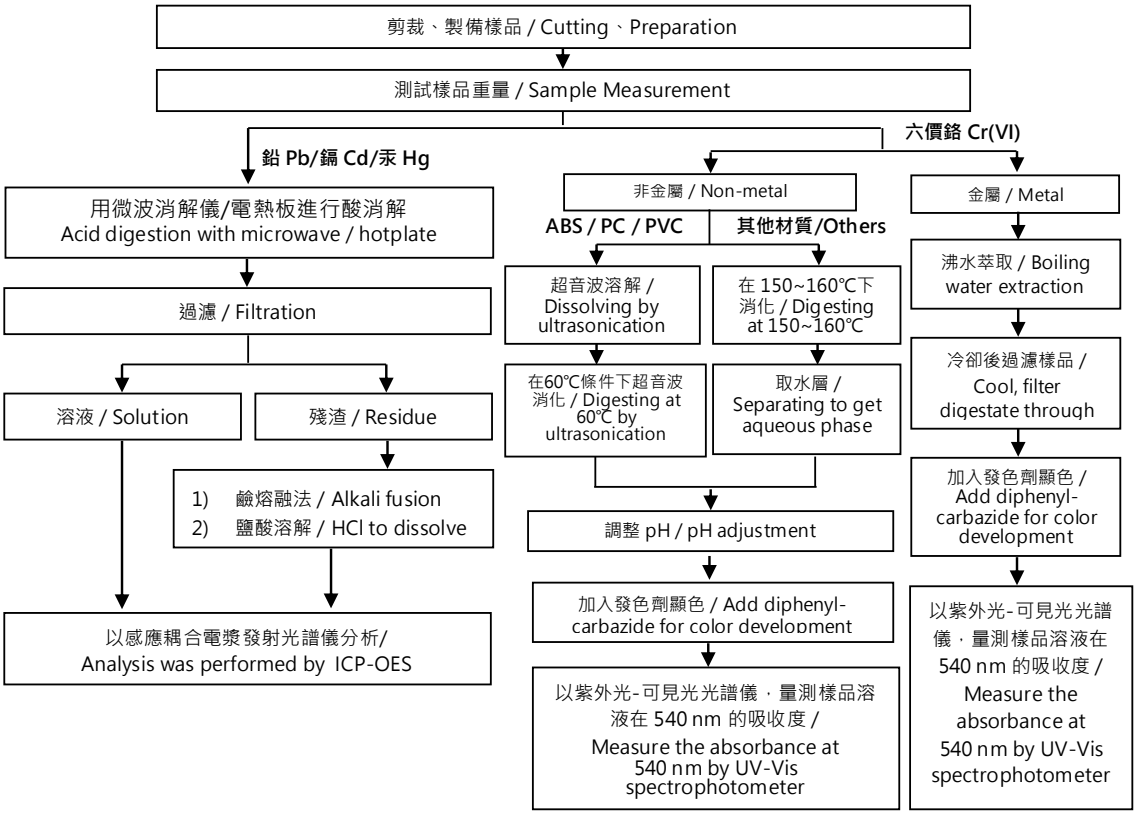
中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

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

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

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



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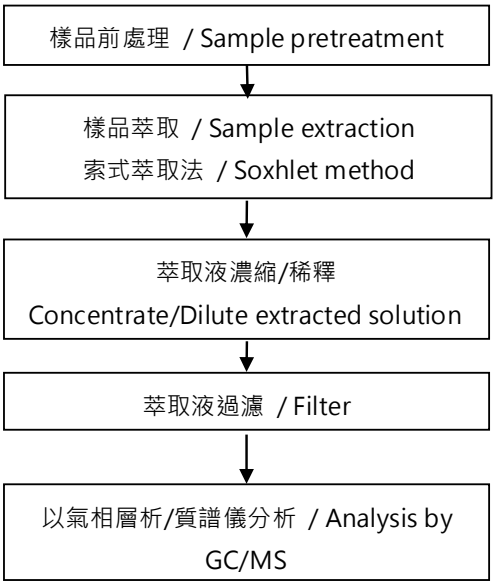
多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART



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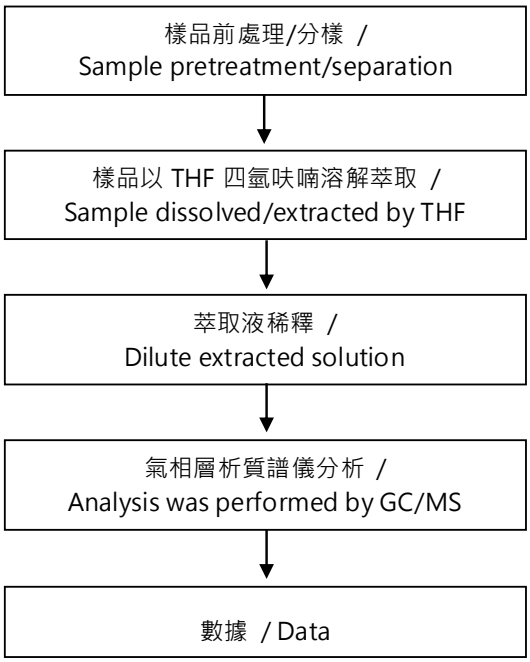
可塑劑分析流程圖 / Analytical flow chart of phthalate content

【測試方法/Test method: IEC 62321-8】



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測試報告
Test Report

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

*** 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.)

EKR23701425



** 報告結尾 (End of Report) **

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測試報告
Test Report

號碼(No.): EKR23701426　　日期(Date): 15-Aug-2023　　

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

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

送樣廠商(Sample Submitted By)	:	中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
樣品名稱(Sample Name)	:	熱軋酸洗塗油鋼捲 (HOT ROLLED PICKLED-AND-OILED COIL)
收件日(Sample Receiving Date)	:	20-Jul-2023
測試期間(Testing Period)	:	20-Jul-2023 to 15-Aug-2023
測試需求(Test Requested)	:	依據客戶指定，測試 PAHs 及其他測項。 (As specified by client, to test PAHs and other item(s).)
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: 72074C42

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Test Report

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測試部位敘述 (Test Part Description)

No.1 : 銀灰色金屬 (SILVER GRAY 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)		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.
石綿 (Asbestos)				
陽起石綿 (Actinolite) (CAS No.: 77536-66-4)	參考EPA 600/R-93/116: 1993，以立體顯微鏡(SM)與分散染色式偏光顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD)分析。(With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).)	-	-	Negative
褐石綿/鐵石綿 (Amosite) (CAS No.: 12172-73-5)		-	-	Negative
斜方角閃石綿 (Anthophyllite) (CAS No.: 77536-67-5)		-	-	Negative
白石綿/溫石綿 (Chrysotile) (CAS No.: 12001-29-5)		-	-	Negative
青石綿 (Crocidolite) (CAS No.: 12001-28-4)		-	-	Negative
透閃石綿 (Tremolite) (CAS No.: 77536-68-6)		-	-	Negative
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	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.

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)
				No.1
多環芳香烴 (Polycyclic Aromatic Hydrocarbons) (PAHs)				
苯駢(a)芘 (Benzo[a]pyrene) (CAS No.: 50-32-8)	參考AfPS GS 2019:01 PAK，以氣相層析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.
苯駢(e)芘 (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.
苯駢蒽 (Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.
苯(b)苯駢芴 (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.
苯(j)苯駢芴 (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.
苯(k)苯駢芴 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.
屘 (Chrysene) (CAS No.: 218-01-9)		mg/kg	0.2	n.d.
二苯駢蒽 (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)		mg/kg	0.2	n.d.
苯駢苝 (Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		mg/kg	0.2	n.d.
茚酮芘 (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.
蒽 (Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.
苯駢芴 (Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.
菲 (Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.
芘 (Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.
萘 (Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.
多環芳香烴15項總和 (Sum of 15 PAHs)		mg/kg	-	n.d.
苊烯 (Acenaphthylene) (CAS No.: 208-96-8)	參考AfPS GS 2019:01 PAK，以氣相層析儀/質譜儀分析。(With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.
苊 (Acenaphthene) (CAS No.: 83-32-9)		mg/kg	0.2	n.d.
芴 (Fluorene) (CAS No.: 86-73-7)		mg/kg	0.2	n.d.

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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. 石綿定性分析試驗範圍： <0.1%~100%，石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』，未檢出石綿纖維為『Negative』。(Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".)

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PAHs Remark：

Δ 德國產品安全委員會(AfPS): GS PAHs 要求
AfPS (German commission for Product Safety): GS PAHs requirements

項目 (Parameter)	第 1 類(Category 1)	第 2 類(Category 2)		第 3 類(Category 3)	
	意圖放入口中的材料或者長時間接觸皮膚(超過 30 秒)的 2009/48/EC 定義的玩具材料和 3 歲以下兒童使用的產品(Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds))	不屬於第 1 類的材料，並意圖或可預見與皮膚接觸逾 30 秒(長期皮膚接觸)或重複的短時間接觸(Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin)		不屬於第 1 類或第 2 類的材料，並意圖或可預見與皮膚接觸不超過 30 秒(短期皮膚接觸)(Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦ 30 seconds))	
		a. 供 14 歲以下兒童使用的產品(Use by children under 14)	b. 其它產品(Other consumer products)	a. 供 14 歲以下兒童使用的產品(Use by children under 14)	b. 其它產品(Other consumer products)
Naphthalene	< 1	< 2		< 10	
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
15 項 PAH 總濃度 (Sum of 15 PAH)	< 1	< 5	< 10	< 20	< 50

單位(Unit)：mg/kg

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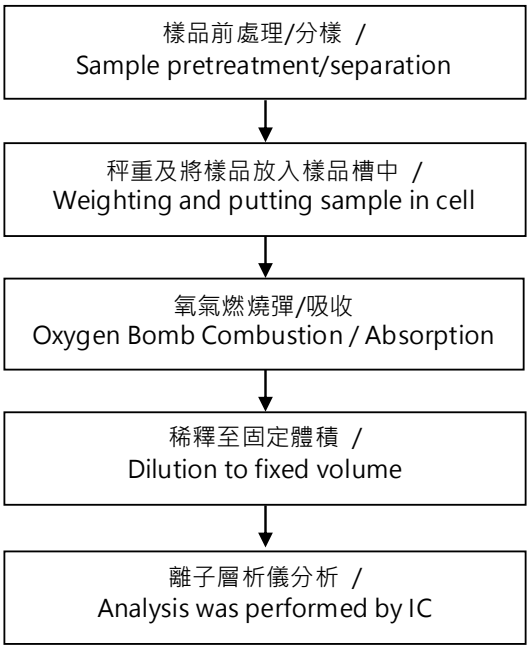
鹵素分析流程圖 / Analytical flow chart of Halogen



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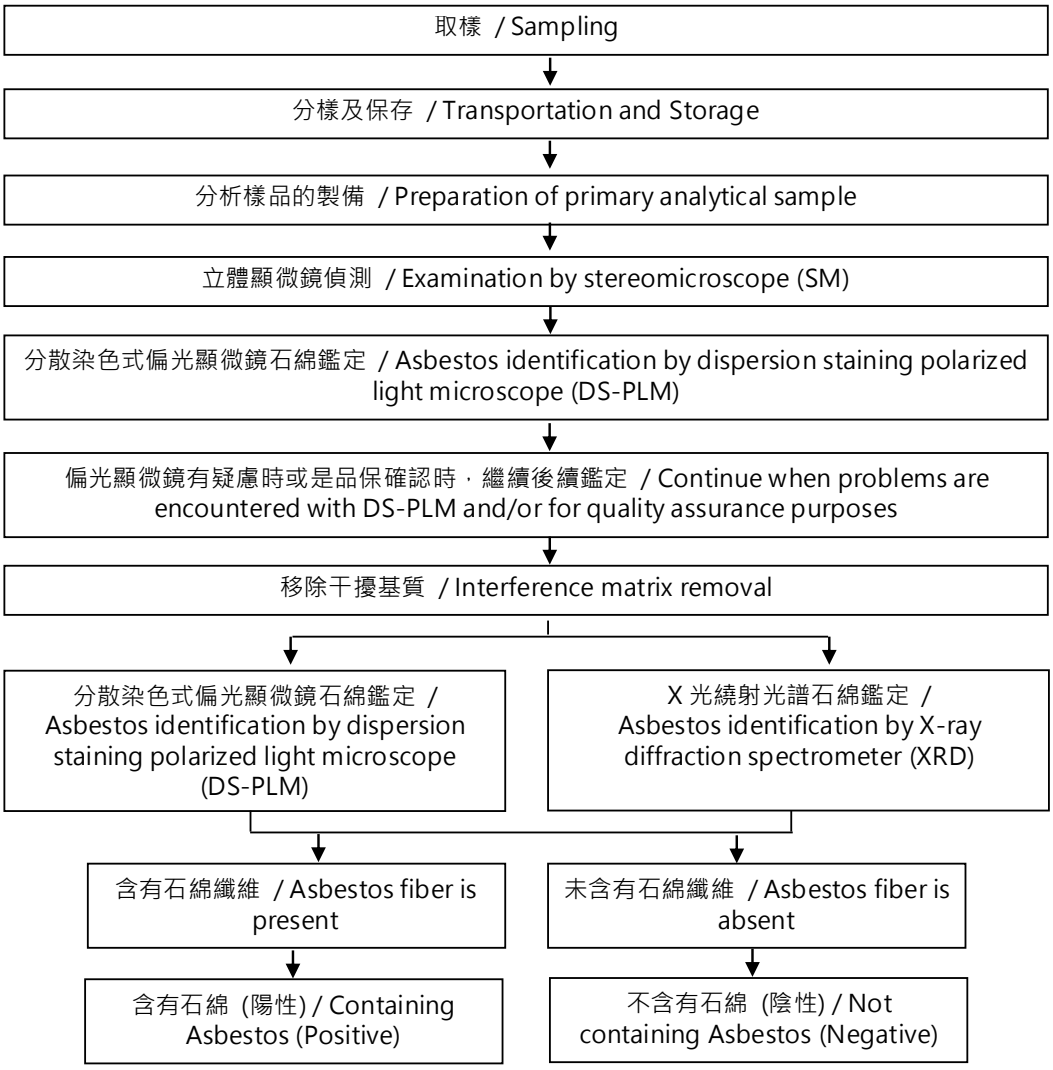
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

【參考方法(Reference method): EPA 600/R-93/116】



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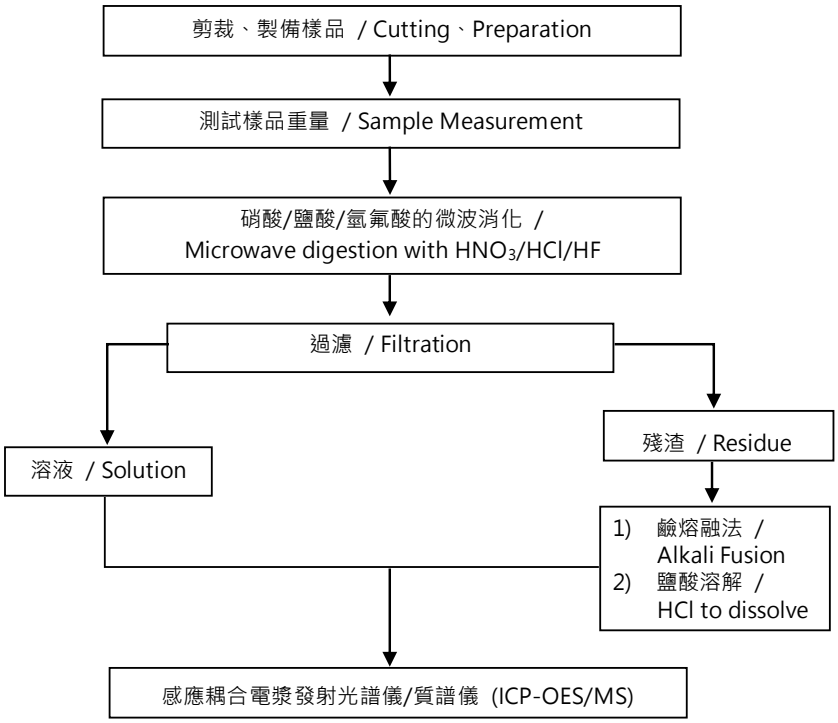
元素(含重金屬)分析流程圖 / Analytical flow chart of Elements (Heavy metal included)

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 3051、US EPA 3052】



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

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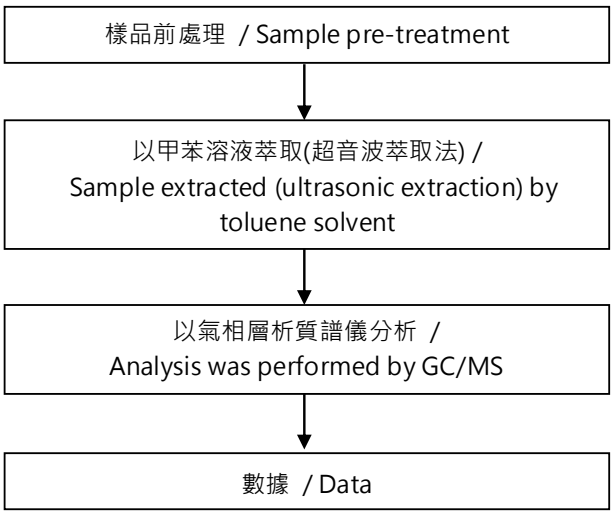
多環芳香烴分析流程圖 /
PAHs (Poly Aromatic Hydrocarbons) analytical flow chart



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測試報告
Test Report

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

*** 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.)

EKR23701426



** 報告結尾 (End of Report) **

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測試報告
Test Report

號碼(No.): EKR23701429　　日期(Date): 15-Aug-2023　　

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

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

送樣廠商(Sample Submitted By)　：　中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
樣品名稱(Sample Name)　：　熱軋酸洗塗油鋼捲 (HOT ROLLED PICKLED-AND-OILED COIL)

==========

收件日(Sample Receiving Date)　：　20-Jul-2023
測試期間(Testing Period)　：　20-Jul-2023 to 15-Aug-2023

測試需求(Test Requested)　：　235項高關注物質篩檢及額外的項目是依客戶特定要求. 高關注物質候選清單是根據歐洲化學總署(ECHA)於2023年06月14日，就關於REACH之Regulation (EC) No 1907/2006的公告。(235 Substances of Very High Concern (SVHC) screening in addition of item(s) by specific client's request. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2023 June 14, regarding Regulation (EC) No 1907/2006 concerning the REACH.)

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

總　　結(Summary)　：　根據歐洲法院對於REACH規範下成品定義的裁決以及指定範圍和分析技術，送測樣品中所選擇的零部件成品的高關注物質(SVHC) 測試結果濃度均 ≤ 0.1%(w/w) (According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope as well as analytical technique, the test results of the selected component article are ≤ 0.1% (w/w) in the submitted sample(s).)

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: B5648548

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測試報告
Test Report

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測試部位敘述 (Test Part Description)

No.1 : 銀灰色金屬 (SILVER GRAY METAL)

測試方法(Test Method)

參考RSTS-EE-SVHC-007，以感應耦合電漿發射光譜儀、紫外光-可見光分光光度計、氣相層析儀/質譜儀、液相層析儀/質譜儀、氣相層析儀/火焰光度偵測器、液相層析儀/二極體陣列偵測器、液相層析串聯質譜儀分析。(With reference to RSTS-EE-SVHC-007, analysis was performed by ICP-OES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/DAD, LC/MS/MS.)

測試結果 (Test Results) **單位 (Unit): %**

高關注物質(SVHC)候選清單 Candidate List of SVHC (2023/06/14)

物質名稱 (Substance Name)	RL	濃度 (Concentration)	限值 (Limit)
		No.1	
所有高關注物質(SVHC)候選清單測試 (All tested SVHC in candidate list)	-	n.d.	0.1

除歐洲化學總署(ECHA)於2023年06月14日所公告的SVHC範圍外，客戶要求以下額外的篩檢 (Additional screening by client's request outside the scope of SVHC as published by ECHA on June 14, 2023):

物質名稱 (Substance Name)	RL	濃度 (Concentration)	限值 (Limit)
		No.1	
環十二烷 (Cyclododecane) (CAS No.: 249-62-2)	0.05	n.d.	0.1

Remark：

1. 高關注物質(SVHC)候選清單 Candidate List of SVHC (2023/06/14)
   https://echa.europa.eu/web/guest/candidate-list-table
2. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定，如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別，且同時符合下列兩項狀況，任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報：

   (a) 成品中所含物質每年超過1公噸。
   (b) 依重量百分比計算，物質濃度超過0.1%。

   In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

   if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

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3. Regulation (EC) No 1907/2006中第 33 條要求成品供應商，其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%，應提供成品接受者充份可取得資訊，以確保成品的安全使用(至少包括物質的名稱)。

   Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

4. 如果樣品中高關注物質的濃度超過0.1% (w/w)和/或歐盟(EC)No.1272/2008 CLP法規及其修訂中設定的特殊濃度限值，建議客戶根據歐盟REACH法規No.1907/2006對有關高關注物質準備安全資料表(SDS)以符合供應鏈通信的義務，如：
   (I) 根據(EC)No.1272/2008 CLP法規被列為有害物質。
   (II) 根據(EC)No.1272/2008 CLP法規被列為有害混合物，而當中物質的濃度大於或等於(EC)No.1272/2008 CLP法規列出的濃度限值;或
   (III) 根據(EC)No.1272/2008 CLP法規並未列為有害混合物，但包含：
   (a) 對人類健康或環境有害的物質，而在固體或液體混合物(即非氣體混合物)中其濃度≥1%(w/w)或在氣體混合物中占體積≥0.2%，或
   (b) PBT或vPvB物質，在固體或液體混合物(即非氣體混合物)中個別濃度≥0.1%(w/w)，或
   (c) 授權審議的高關注物質候選清單上的物質(除上述以外的原因)在個別非氣體混合物中的濃度≥0.1%(w/w)，或
   (d) 設有歐洲範圍內工作場所接觸限值的物質。

   If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

   (I) a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
   (II) mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
   (III) a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
   (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
   (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
   (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
   (d) a substance for which there are Europe-wide workplace exposure limits

5. 倘若SVHC超出報告極限值，建議客戶確認含有該SVHC的零件，並要求實驗室進一步的定量分析而取得SVHC的確切濃度。
   If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. RL = Reporting Limit (報告極限值)
3. n.d. = Not Detected (未檢出)；小於RL (Less than RL)
4. "-" = Not Regulated (無規格值)

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5. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 × 1.1375
   (conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1375)
6. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來。(The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.)
7. ***: 該物質是由單辛基錫、二辛基錫、三丁基錫、二丁基錫、全氟辛酸或各別元素 (例如：砷、鉛、六價鉻、硼、鈷、鋇、鎘)之測試結果計算得知。(The substance was calculated by the test results of Monooctyl Tin, Dioctyl Tin, Tributyl Tin, Dibutyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium respectively).)

表格 (Table) 1：測試結果如下(The test result is given as): **單位(Unit): %**

物質名稱 / 特定元素 (Substance Name / Specific Element(s))	RL	濃度 (Concentration)
		No.1
三丁基錫 (Tributyl Tin) (TBT)	0.0487	n.d.
砷 (Arsenic) (As) (※ E)	0.005	n.d.
六價鉻 (Hexavalent chromium) (Cr(VI))	0.005	n.d.
硼 (Boron) (B) (※ E)	0.005	n.d.
鈷 (Cobalt) (Co)	0.005	n.d.
二丁基錫 (Dibutyl Tin) (DBT)	0.027	n.d.
鋇 (Barium) (Ba)	0.005	n.d.
二辛基錫 (Dioctyl Tin) (DOT)	0.023	n.d.
單辛基錫 (Monooctyl Tin) (MOT)	0.0138	n.d.
鉛 (Lead) (Pb)	0.005	n.d.
鎘 (Cadmium) (Cd)	0.005	n.d.

8. F參數換算表&分類 (F Parameter Conversion Table & Classification): https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
9. (※ P): 此化合物之濃度是取六價鉻及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
   (Regarding the compound containing Cr(VI) and lead, lead and Cr(VI) are tested and respectively used for the calculation of the independent concentration of the compound containing Cr(VI) and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
10. (※ C): 鉻酸與重鉻酸的寡聚體: 因為其寡聚體是由未知數的鉻酸或與重鉻酸所組成，而導致沒有固定分子量，因此以單體鉻酸或重鉻酸較為重要並應被考慮。(Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.)
11. (※ H): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519)。(Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).)

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12. (※ S): 此砷鉛化合物之濃度是取砷及鉛兩者各別換算出砷鉛化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
13. (※ T): 由於TGIC本身含有β-TGIC，依照ECHA 技術文件 β-TGIC與 TGIC 約為 1:10 比例，因此β-TGIC將以1/10 的TGIC計算濃度。(TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.)
14. (※ B): 只有在矽與鉛定性結果為陽性時，再以鋇之濃度換算之。(Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.)
15. (※ R): RP-HP無法直接測得且無法自特定元素計算含量，RP-HP之所以被定義於SVHC是因為4-HPBl，因此分析4-HPBl取代RP-HP。(RP-HP can't be identified directly and test result can't be calculated based on specific element(s) or compound. RP-HP is identified as SVHC because of 4-HPBl, therefore 4-HPBl is analysed instead of RP-HP.)
16. (●) : 因為鉛有一很廣泛應用，不太可能判定是否檢驗出的鉛是來自鉛離子，鉛元素或鉛化合物，因此用檢驗出的總鉛來代表鉛。(Since lead has a wide application, it is unlikely to determine if the detected lead comes from the lead ion, lead element or/ and lead compounds. Therefore the detected total lead is used on behalf of lead.)
17. (※ U): 硼酸鈉鹽及其水合物; 硼酸二鈉鹽; 硼酸三鈉; 硼酸鈉鹽; 硼酸鈉; 硼酸鈉鹽 (1:1) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0)，依據其中最大分子量的硼酸鈉鹽 (CAS No.: 13840-56-7)進行計算，其F參數為11.8215。(Boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Orthoboric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0). The calculation is based on the largest molecular weight of Orthoboric acid, sodium salt (CAS No.: 13840-56-7). The F Parameter is 11.8215.)
18. (※ D): 此化合物之濃度是取硼及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Boron and lead, lead and Boron are tested and respectively used for the calculation of the independent concentration of the compound containing Boron and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
19. (※ G): 此化合物先定性初篩，當該化合物有訊號，再利用特定元素硫及磷計算化合物濃度。
(The compound is qualitatively screened first. When there is a signal of the compound, specific elements Sulfur and Phosphorus are used to calculate the concentration of compound.)
20. (※ I): 先對特定指標化合物進行初篩，再經評估後，如有特定訊號時，實驗室需加測總氟來計算化合物濃度。
(A specific index compound is qualitatively screened first. After the evaluation, and the specific signal is positive, the total Fluorine is used to calculate the concentration of SVHC compound.)
21. (※ A): 此化合物之濃度是取硼及鋇兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Boron and Barium, Barium and Boron are tested and respectively used for the calculation of the independent concentration of the compound containing Boron and Barium. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
22. (※ E): 被萃取出的溶出硼/砷是以感應耦合電漿發射光譜儀檢測得之。(The extracted soluble Boron / Arsenic are detected by ICP-OES.)

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23. 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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【附錄 (Appendix) 1】

高關注物質(SVHC)候選清單 Candidate List of SVHC (2023/06/14) : **單位 (Unit): %**

No.	物質名稱 (Substance Name)	RL
1.	4,4' - 二氨基二苯甲烷 (4,4'- Diaminodiphenylmethane) (MDA) (CAS No.: 101-77-9)	0.05
2.	二甲苯麝香 (5-tert-butyl-2,4,6-trinitro-m-xylene) (Musk Xylene) (CAS No.: 81-15-2)	0.05
3.	短鏈氯化石蠟 (Alkanes, C10-13, chloro) (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	0.05
4.	蒽 (Anthracene) (CAS No.: 120-12-7)	0.05
5.	鄰苯二甲酸丁苯甲酯 (Benzyl butyl phthalate) (BBP) (CAS No.: 85-68-7)	0.05
6.	氧化雙三丁基錫 (Bis(tributyltin) oxide) (TBTO)*** (CAS No.: 56-35-9)	-
7.	五氧化二砷 (Diarsenic pentaoxide)*** (CAS No.: 1303-28-2)	-
8.	三氧化二砷 (Diarsenic trioxide)*** (CAS No.: 1327-53-3)	-
9.	鄰苯二甲酸二丁酯 (Dibutyl phthalate) (DBP) (CAS No.: 84-74-2)	0.05
10.	六溴環十二烷及所有主要被辨別出的異構物 (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	0.05
11.	砷酸氫鉛 (Lead hydrogen arsenate)*** (CAS No.: 7784-40-9) (※ S)	-
12.	重鉻酸鈉 (Sodium dichromate)*** (CAS No.: 10588-01-9, 7789-12-0) (*)	-
13.	三乙基砷酸酯 (Triethyl arsenate)*** (CAS No.: 15606-95-8)	-
14.	鄰苯二甲酸二 (2-乙基己基)酯 (Bis (2-ethylhexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	0.05
15.	2,4-二硝基甲苯 (2,4-Dinitrotoluene) (CAS No.: 121-14-2)	0.05
16.	蒽油 (Anthracene oil) (CAS No.: 90640-80-5) (**)	0.05
17.	蒽油, 蒽糊 (Anthracene oil, anthracene paste) (CAS No.: 90640-81-6) (**)	0.05
18.	蒽油, 蒽糊, 蒽餾分 (Anthracene oil, anthracene paste, anthracene fraction) (CAS No.: 91995-15-2) (**)	0.05
19.	蒽油, 蒽糊, 輕油 (Anthracene oil, anthracene paste, distn. Lights) (CAS No.: 91995-17-4) (**)	0.05
20.	蒽油, 含蒽量少 (Anthracene oil, anthracene-low) (CAS No.: 90640-82-7) (**)	0.05
21.	鄰苯二甲酸二異丁酯 (Diisobutyl phthalate) (DIBP) (CAS No.: 84-69-5)	0.05
22.	鉻酸鉛 (Lead chromate)*** (CAS No.: 7758-97-6) (※ P)	-
23.	鉬鉻紅；顏色索引: 顏料紅104 (Lead chromate molybdate sulphate red (C.I. Pigment Red 104))*** (CAS No.: 12656-85-8) (※ P)	-
24.	鉻酸鉛；顏色索引: 顏料黃34 (Lead sulfochromate yellow (C.I. Pigment Yellow 34))*** (CAS No.: 1344-37-2) (※ P)	-
25.	煤瀝青, 高溫 (Pitch, coal tar, high-temp.) (CAS No.: 65996-93-2) (**)	0.05
26.	磷酸三(2-氯乙基)酯 (Tris(2-chloroethyl) phosphate) (TCEP) (CAS No.: 115-96-8)	0.05
27.	丙烯醯胺 (Acrylamide) (CAS No.: 79-06-1)	0.05

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No.	物質名稱 (Substance Name)	RL
28.	重鉻酸銨 (Ammonium dichromate)*** (CAS No.: 7789-09-5)	-
29.	硼酸 (Boric acid)*** (CAS No.: 10043-35-3, 11113-50-1)	-
30.	無水四硼酸二鈉 (Disodium tetraborate, anhydrous)*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	-
31.	鉻酸鉀 (Potassium chromate)*** (CAS No.: 7789-00-6)	-
32.	重鉻酸鉀 (Potassium dichromate)*** (CAS No.: 7778-50-9)	-
33.	鉻酸鈉 (Sodium chromate)*** (CAS No.: 7775-11-3)	-
34.	水合硼酸鈉 (Tetraboron disodium heptaoxide, hydrate) (CAS No.: 12267-73-1) (※ H)	-
35.	三氯乙烯 (Trichloroethylene) (CAS No.: 79-01-6)	0.05
36.	乙二醇乙醚 (2-Ethoxyethanol) (CAS No.: 110-80-5)	0.05
37.	乙二醇甲醚 (2-Methoxyethanol) (CAS No.: 109-86-4)	0.05
38.	從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 (Acids generated from chromium trioxide and their oligomers: Chromic acid)*** (CAS No.: 7738-94-5)	-
	從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 (Acids generated from chromium trioxide and their oligomers: Dichromic acid)*** (CAS No.: 13530-68-2)	-
	從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 (Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid) (※ C)	-
39.	三氧化鉻 (Chromium trioxide)***(CAS No.: 1333-82-0)	-
40.	碳酸鈷(二價) (Cobalt(II) carbonate)*** (CAS No.: 513-79-1)	-
41.	醋酸鈷(二價) (Cobalt(II) diacetate)*** (CAS No.: 71-48-7)	-
42.	硝酸鈷(二價) (Cobalt(II) dinitrate)*** (CAS No.: 10141-05-6)	-
43.	硫酸鈷(二價) (Cobalt(II) sulphate)*** (CAS No.: 10124-43-3)	-
44.	1,2,3-三氯丙烷 (1,2,3-trichloropropane) (CAS No.: 96-18-4)	0.05
45.	鄰苯二甲酸二 (C6-8支鏈)烷基酯，富C7 (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (DIHP) (CAS No.: 71888-89-6)	0.05
46.	鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (DHNUP) (CAS No.: 68515-42-4)	0.05
47.	N-甲基吡咯烷酮 (1-Methyl-2-pyrrolidone) (NMP) (CAS No.: 872-50-4)	0.05
48.	乙二醇乙醚乙酸酯 (2-Ethoxyethyl acetate) (CAS No.: 111-15-9)	0.05
49.	聯氨 (Hydrazine) (CAS No.: 7803-57-8, 302-01-2)	0.05
50.	鉻酸鍶 (Strontium chromate)*** (CAS No.: 7789-06-2)	-
51.	二氯化鈷 (Cobalt dichloride) (CAS No.: 7646-79-9)	0.005
52.	1,2-二氯乙烷 (1,2-Dichloroethane) (CAS No.: 107-06-2)	0.05
53.	4,4'-亞甲雙 (2-氯苯胺) (2,2'-dichloro-4,4'-methylenedianiline) (CAS No.: 101-14-4)	0.05

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No.	物質名稱 (Substance Name)	RL
54.	鄰甲氧基苯胺 (2-Methoxyaniline, o-Anisidine) (CAS No.: 90-04-0)	0.05
55.	對特辛基苯酚 / 辛基酚 (4-(1,1,3,3-tetramethylbutyl)phenol) (CAS No.: 140-66-9)	0.05
56.	矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內) (Aluminosilicate Refractory Ceramic Fibres【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】)	0.05
57.	砷酸 (Arsenic acid)*** (CAS No.: 7778-39-4)	-
58.	双(2-甲氧基乙基)醚 (Bis(2-methoxyethyl) ether) (CAS No.: 111-96-6)	0.05
59.	鄰苯二甲酸二甲氧基乙酯 (Bis(2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	0.05
60.	砷酸鈣 (Calcium arsenate)*** (CAS No.: 7778-44-1)	-
61.	鉻酸鉻 (Dichromium tris(chromate))*** (CAS No.: 24613-89-6)	-
62.	甲醛與苯胺的寡聚體 (Formaldehyde, oligomeric reaction products with aniline (technical MDA)) (CAS No.: 25214-70-4)	0.05
63.	疊氮化鉛 (Lead diazide, Lead azide)*** (CAS No.: 13424-46-9)	-
64.	苦味酸鉛 (Lead dipicrate)*** (CAS No.: 6477-64-1)	-
65.	中性斯蒂酚酸鉛 (Lead styphnate)*** (CAS No.: 15245-44-0)	-
66.	N,N-二甲基乙醯胺 (N,N-dimethylacetamide) (DMAC) (CAS No.: 127-19-5)	0.05
67.	八氫氧化五鉻酸鋅 (Pentazinc chromate octahydroxide)*** (CAS No.: 49663-84-5)	-
68.	酚酞 (Phenolphthalein) (CAS No.: 77-09-8)	0.05
69.	氫氧化鉻酸鋅鉀 (Potassium hydroxyoctaoxodizincatedichromate)*** (CAS No.: 11103-86-9)	-
70.	砷酸鉛 (Trilead diarsenate)*** (CAS No.: 3687-31-8) (※ S)	-
71.	鋯矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內) (Zirconia Aluminosilicate Refractory Ceramic Fibres【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】)	0.05
72.	鹼性藍 26 [內含≥ 0.1% 的米氏酮或米氏鹼] ([4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 2580-56-5)	0.05
73.	鹼性紫 3 [內含≥ 0.1% 的米氏酮或米氏鹼] ([4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 548-62-9)	0.05
74.	三甘醇二甲醚 (1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)) (CAS No.: 112-49-2)	0.05
75.	乙二醇二甲醚 (1, 2-dimethoxyethane; ethylene glycol dimethyl ether) (EGDME) (CAS No.: 110-71-4)	0.05
76.	異氰尿酸三縮水甘油酯 (1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione) (TGIC) (CAS No.: 2451-62-9)	0.05

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No.	物質名稱 (Substance Name)	RL
77.	異氰尿酸β-三縮水甘油酯 (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (β-TGIC) (CAS No.: 59653-74-6) (※ T)	0.05
78.	α, α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 [内含≥ 0.1% 的米氏酮或米氏鹼] (4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol) [with ≥ 0.1% of Michler's ketone or Michler's base] (CAS No.: 561-41-1)	0.05
79.	4,4'-二(N,N-二甲氨基)二苯甲酮 (米氏酮) (4,4'-bis(dimethylamino)benzophenone (Michler’ s ketone)) (CAS No.: 90-94-8)	0.05
80.	三氧化二硼 (Diboron trioxide)*** (CAS No.: 1303-86-2)	-
81.	甲醯胺 (Formamide) (CAS No.: 75-12-7)	0.05
82.	甲基磺酸鉛 (Lead(II) bis(methanesulfonate))*** (CAS No.: 17570-76-2)	-
83.	4,4'-(对二甲氨基)二苯基甲烷 (米氏鹼) (N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)) (CAS No.: 101-61-1)	0.05
84.	溶劑藍 4 [内含≥ 0.1% 的米氏酮或米氏鹼] (α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 6786-83-0)	0.05
85.	[1,2-苯二羧酸根合]二氧化三鉛 ([Phthalato(2-)]dioxotrilead)*** (CAS No.: 69011-06-9)	-
86.	支鏈和直鏈1,2-苯二羧二戊酯 (1,2-Benzenedicarboxylic acid, dipentylester, branched and linear) (CAS No.: 84777-06-0)	0.05
87.	乙二醇二乙醚 (1,2-Diethoxyethane) (CAS No.: 629-14-1)	0.05
88.	正丙基溴 (1-bromopropane (n-propyl bromide)) (CAS No.: 106-94-5)	0.05
89.	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷 (3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine) (CAS No.: 143860-04-2)	0.05
90.	4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基 [以及所有的被定義的物質，未知成分或可變成分的物質，聚合物和同系物] (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues])	0.05
91.	4,4'-二氨基-3,3'-二甲基聯苯基甲烷 (4,4'-Methylenedi-o-toluidine) (CAS No.: 838-88-0)	0.05
92.	4,4'-二氨基二苯醚 (4,4'-Oxydianiline and its salts) (CAS No.: 101-80-4)	0.05
93.	4-苯基偶氮基苯胺 (4-Aminoazobenzene) (CAS No.: 60-09-3)	0.05
94.	2,4-二氨基甲苯 (2,4-Diaminotoluene) (CAS No.: 95-80-7)	0.05
95.	分支或線性的壬基酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 (4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	0.05
96.	3-甲基-6-甲氧基苯胺 (6-methoxy-m-toluidine (p-cresidine)) (CAS No.: 120-71-8)	0.05
97.	堿式醋酸鉛 (Acetic acid, lead salt, basic)*** (CAS No.: 51404-69-4)	-
98.	4-氨基聯苯 (Biphenyl-4-ylamine) (CAS No.: 92-67-1)	0.05

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No.	物質名稱 (Substance Name)	RL
99.	十溴聯苯醚 (Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)) (CAS No.: 1163-19-5)	0.05
100.	六氫苯二甲酸酐 (Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2- dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	0.05
101.	偶氮[二]甲醯胺 (Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (CAS No.: 123-77-3)	0.05
102.	二氯二丁基錫 (Dibutyltin dichloride) (DBTC)*** (CAS No.: 683-18-1)	-
103.	硫酸二乙酯 (Diethyl sulphate) (CAS No.: 64-67-5)	0.05
104.	鄰苯二甲酸二異戊酯 (Diisopentyl phthalate) (CAS No.: 605-50-5)	0.05
105.	硫酸二甲酯 (Dimethyl sulphate) (CAS No.: 77-78-1)	0.05
106.	2-(1-甲基丙基)-4,6-二硝基苯酚 (Dinoseb (6-sec-butyl-2,4-dinitrophenol)) (CAS No.: 88-85-7)	0.05
107.	雙(十八酸基)二氧代三鉛 (Dioxobis(stearato)trilead)*** (CAS No.: 12578-12-0)	-
108.	C16-18-脂肪酸鉛鹽 (Fatty acids, C16-18, lead salts)*** (CAS No.: 91031-62-8)	-
109.	呋喃 (Furan) (CAS No.: 110-00-9)	0.05
110.	全氟十一酸 (Henicosafluoroundecanoic acid) (CAS No.: 2058-94-8)	0.05
111.	全氟十四酸 (Heptacosafluorotetradecanoic acid) (CAS No.: 376-06-7)	0.05
112.	甲基六氫苯酐 (Hexahydromethylphthalic anhydride) (CAS No.: 25550-51-0) 4-甲基六氫苯酐 (Hexahydro-4-methylphthalic anhydride) (CAS No.: 19438-60-9) 3-甲基六氫苯酐 (Hexahydro-3-methylphthalic anhydride) (CAS No.: 57110-29-9) 1-甲基六氫苯酐 (Hexahydro-1-methylphthalic anhydride) (CAS No.: 48122-14-1)	0.05
113.	四氟硼酸鉛 (II) (Lead bis(tetrafluoroborate))*** (CAS No.: 13814-96-5) (※ D)	-
114.	氨基氰鉛鹽 (Lead cyanamidate)*** (CAS No.: 20837-86-9)	-
115.	硝酸鉛 (Lead dinitrate)*** (CAS No.: 10099-74-8)	-
116.	氧化鉛 (Lead monoxide) (lead oxide)*** (CAS No.: 1317-36-8)	-
117.	堿式硫酸鉛 (Lead oxide sulfate)*** (CAS No.: 12036-76-9)	-
118.	鈦酸鉛 (Lead titanium trioxide)*** (CAS No.: 12060-00-3)	-
119.	鈦酸鉛鋯 (Lead Titanium Zirconium Oxide)*** (CAS No.: 12626-81-2)	-
120.	甲氧基乙酸 (Methoxyacetic acid) (CAS No.: 625-45-6)	0.05
121.	環氧丙烷 (Methyloxirane (Propylene oxide)) (CAS No.: 75-56-9)	0.05
122.	N,N-二甲基甲醯胺 (N,N-dimethylformamide; dimethyl formamide) (CAS No.: 68-12-2)	0.05
123.	N-甲基乙醯胺 (N-methylacetamide) (CAS No.: 79-16-3)	0.05
124.	鄰苯二甲酸正戊異戊酯 (n-pentyl-isopentylphthalate) (CAS No.: 776297-69-9)	0.05
125.	鄰氨基偶氮甲苯 (o-aminoazotoluene) (CAS No.: 97-56-3)	0.05

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No.	物質名稱 (Substance Name)	RL
126.	四氧化鉛 (Orange lead (lead tetroxide))*** (CAS No.: 1314-41-6)	-
127.	鄰甲苯胺 (o-Toluidine) (CAS No.: 95-53-4)	0.05
128.	全氟十三酸 (Pentacosafluorotridecanoic acid) (CAS No.: 72629-94-8)	0.05
129.	氧化鉛與硫酸鉛的複合物 (Pentalead tetraoxide sulphate)*** (CAS No.: 12065-90-6)	-
130.	C.I.顏料黃41 (Pyrochlore, antimony lead yellow)*** (CAS No.: 8012-00-8)	-
131.	含鉛的矽酸鋇 (Silicic acid (H2Si2O5), barium salt (1:1), lead-doped) (※ B) (CAS No.: 68784-75-8)	0.05
132.	矽酸鉛 (Silicic acid, lead salt)*** (CAS No.: 11120-22-2)	-
133.	亞硫酸鉛(II) (Sulfurous acid, lead salt, dibasic)*** (CAS No.: 62229-08-7)	-
134.	四乙基鉛 (Tetraethyllead)*** (CAS No.: 78-00-2)	-
135.	三鹼式硫酸鉛/ C.I. 顏料白 (Tetralead trioxide sulphate)*** (CAS No.: 12202-17-4)	-
136.	全氟十二酸 (Tricosafluorododecanoic acid) (CAS No.: 307-55-1)	0.05
137.	堿式碳酸鉛 (Trilead bis(carbonate) dihydroxide (basic lead carbonate))*** (CAS No.: 1319-46-6)	-
138.	磷酸氧化鉛 (Trilead dioxide phosphonate)*** (CAS No.: 12141-20-7)	-
139.	分支或線性的乙氧化壬基酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 (4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof])	0.05
140.	全氟辛酸銨 (Ammonium pentadecafluorooctanoate) (APFO)*** (CAS No.: 3825-26-1)	-
141.	鎘 (Cadmium) (Cd) (CAS No.: 7440-43-9)	0.005
142.	氧化鎘 (Cadmium oxide)*** (CAS No.: 1306-19-0)	-
143.	鄰苯二甲酸二戊酯 (Dipentyl phthalate) (DPP) (CAS No.: 131-18-0)	0.05
144.	全氟辛酸 (Pentadecafluorooctanoic acid) (PFOA) (CAS No.: 335-67-1)	0.05
145.	硫化鎘 (Cadmium sulphide)*** (CAS No.: 1306-23-6)	-
146.	鄰苯二甲酸二正己酯 (Di-n-hexyl phthalate) (DNHP) (CAS No.: 84-75-3)	0.05
147.	直接紅28 (Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)) (CAS No.: 573-58-0)	0.05
148.	直接黑38 (Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)) (CAS No.: 1937-37-7)	0.05
149.	亞乙基硫脲 (Imidazolidine-2-thione (2-imidazoline-2-thiol)) (CAS No.: 96-45-7)	0.05
150.	醋酸鉛 (Lead di(acetate))*** (CAS No.: 301-04-2)	-
151.	磷酸三(二甲苯)酯 (Trixylyl phosphate) (CAS No.: 25155-23-1)	0.05

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No.	物質名稱 (Substance Name)	RL
152.	鄰苯二甲酸二己酯(支鏈和直鏈) (1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear) (CAS No.: 68515-50-4)	0.05
153.	氯化鎘 (Cadmium chloride)*** (CAS No.: 10108-64-2)	-
154.	過硼酸鈉 (Sodium perborate; perboric acid, sodium salt)***	-
155.	過氧偏硼酸鈉 (Sodium peroxometaborate)*** (CAS No.: 7632-04-4)	-
156.	2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑 (紫外線吸收劑328) (2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol) (UV-328) (CAS No.: 25973-55-1)	0.05
157.	2-[2-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 (紫外線吸收劑320) (2-benzotriazol-2-yl-4,6-di-tert-butylphenol) (UV-320) (CAS No.: 3846-71-7)	0.05
158.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫 (2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE))*** (CAS No.: 15571-58-1)	-
159.	氟化鎘 (Cadmium fluoride)*** (CAS No.: 7790-79-6)	-
160.	硫酸鎘 (Cadmium sulphate)*** (CAS No.: 10124-36-4, 31119-53-6)	-
161.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫和單辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 (Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE))***	-
162.	鄰苯二甲酸二(C6-10)烷基酯; 鄰苯二甲酸二己、二辛、二癸酯混合物;鄰苯二甲酸二己酯 ≧ 0.3% (1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≧ 0.3% of dihexyl phthalate) (CAS No.: 68515-51-5, 68648-93-1)	0.05
163.	5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[1],5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[2],[任何[1]和[2]或者其任意組合的單獨異構物或其任何組合] (5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof])	0.05
164.	1,3-丙烷磺內酯 (1,3-propanesultone) (CAS No.: 1120-71-4)	0.05
165.	2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(紫外線吸收劑327) (2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol) (UV-327) (CAS No.: 3864-99-1)	0.05
166.	2-(3-仲-丁基-5-叔丁基-2-羟苯基)苯并三唑(紫外線吸收劑 UV-350) (2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol) (UV-350) (CAS No.: 36437-37-3)	0.05
167.	硝基苯 (Nitrobenzene) (CAS No.: 98-95-3)	0.05
168.	全氟壬酸 (Perfluorononan-1-oic-acid and its sodium and ammonium salts) (CAS No.: 375-95-1, 21049-39-8, 4149-60-4)	0.05
169.	苯并(a)芘 (Benzo[def]chrysene (Benzo[a]pyrene)) (CAS No.: 50-32-8)	0.05

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No.	物質名稱 (Substance Name)	RL
170.	雙酚A (4,4'-isopropylidenediphenol) (Bisphenol A) (CAS No.: 80-05-7)	0.05
171.	4-庚基苯酚，支鍊及直鍊 (4-HPbl)，包括含有7個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支7個碳烷基鏈的UVCB物質 (4-Heptylphenol, branched and linear (4-HPbl) [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	0.05
172.	十九氟癸酸及其鈉和銨鹽 (Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts) (CAS No.: 3108-42-7, 335-76-2, 3830-45-3)	0.05
173.	對(1,1-二甲基丙基)苯酚 (p-(1,1-dimethylpropyl)phenol) (CAS No.: 80-46-6)	0.05
174.	全氟己基磺酸及其鹽類 (Perfluorohexane-1-sulphonic acid and its salts) (PFHxS) (CAS No.: 355-46-4)	0.05
175.	德克隆(涵蓋各個反式及順式同分異構物或者相關組合) (1,6,7,8,9,14,15,16,17, 17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof])	0.05
176.	苯並[a]蒽 (Benz[a]anthracene) (CAS No.: 56-55-3)	0.05
177.	硝酸鎘 (Cadmium nitrate)*** (CAS No.: 10325-94-7)	-
178.	碳酸鎘 (Cadmium carbonate)*** (CAS No.: 513-78-0)	-
179.	氫氧化鎘 (Cadmium hydroxide)*** (CAS No.: 21041-95-2)	-
180.	苯並[a]菲 (Chrysene) (CAS No.: 218-01-9)	0.05
181.	1,3,4-噻唑烷-2,5-二硫酮，甲醛及4-庚基苯酚支鏈及直鏈反應物, (RP-HP) [含≥0.1% w/w 支鏈及直鏈4-庚基苯酚] (Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]) (※ R)	-
182.	鄰苯二甲酸二環己酯 (Dicyclohexyl phthalate) (DCHP) (CAS No.: 84-61-7)	0.05
183.	1,2,4-苯三甲酸酐 (Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)) (CAS No.: 552-30-7)	0.05
184.	苯並(G,H,I)苝 (Benzo[ghi]perylene) (CAS No.: 191-24-2)	0.05
185.	八甲基環四矽氧烷 (Octamethylcyclotetrasiloxane) (D4) (CAS No.: 556-67-2)	0.05
186.	十甲基環五矽氧烷 (Decamethylcyclopentasiloxane) (D5) (CAS No.: 541-02-6)	0.05
187.	十二甲基環六矽氧烷 (Dodecamethylcyclohexasiloxane) (D6) (CAS No.: 540-97-6)	0.05
188.	氧化硼鈉 (Disodium octaborate)*** (CAS No.: 12008-41-2)	-
189.	乙二胺 (Ethylenediamine) (CAS No.: 107-15-3)	0.05
190.	鉛 (Lead) (Pb) (CAS No.: 7439-92-1) (●)	0.005
191.	氫化三聯苯 (Terphenyl, hydrogenated) (CAS No.: 61788-32-7)	0.05
192.	2,2-雙(4-羥基苯基)-4-甲基戊烷 (2,2-bis(4'-hydroxyphenyl)-4-methylpentane) (CAS No.: 6807-17-6)	0.05

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No.	物質名稱 (Substance Name)	RL
193.	苯駢(k)螢蒽 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)	0.05
194.	苯駢芴 (Fluoranthene) (CAS No.: 206-44-0)	0.05
195.	菲 (Phenanthrene) (CAS No.: 85-01-8)	0.05
196.	芘 (Pyrene) (CAS No.: 129-00-0)	0.05
197.	1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚-2-酮 (1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)) (CAS No.: 15087-24-8)	0.05
198.	2,3,3,3-四氟-2-(七氟丙氧基)丙酸，鹽類，及其醯鹵(涵蓋他們其個別和組合之同分異構物) (2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof))	0.05
199.	2-甲烷氧基乙基乙酯 (2-methoxyethyl acetate) (CAS No.: 110-49-6)	0.05
200.	4-叔丁基苯酚 (4-tert-butylphenol) (CAS No.: 98-54-4)	0.05
201.	三(4-壬苯基,支鏈及直鏈)亞磷酸酯 含≥0.1%的支鏈及直鏈4-壬基酚 (Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear) (4-NP)	0.05
202.	二異己基鄰苯二甲酸酯 (Diisohexyl phthalate) (CAS No.: 71850-09-4)	0.05
203.	2-苄基-2-二甲基氨基-1-(4-嗎啉苯基)丁酮 (2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone) (CAS No.: 119313-12-1)	0.05
204.	2-甲基-1-(4-甲硫基苯基)-2-嗎啡基-1-丙酮 (2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one) (CAS No.: 71868-10-5)	0.05
205.	全氟丁磺酸及其相關鹽類 (Perfluorobutane sulfonic acid (PFBS) and its salts)	0.05
206.	1-乙烯基咪唑 (1-vinylimidazole) (CAS No.: 1072-63-5)	0.05
207.	2-甲基咪唑 (2-methylimidazole) (CAS No.: 693-98-1)	0.05
208.	4-羥基苯甲酸丁酯 (Butyl 4-hydroxybenzoate) (CAS No.: 94-26-8)	0.05
209.	二正丁基雙(乙醯丙酮基)錫 (Dibutylbis(pentane-2,4-dionato-O,O')tin)*** (CAS No.: 22673-19-4)	-
210.	雙(2-(2-甲氧基乙氧基)乙基)醚 (Bis(2-(2-methoxyethoxy)ethyl) ether) (CAS No.: 143-24-8)	0.05
211.	二月桂酸二辛基錫，錫烷，二辛基-，雙(椰油醯氧基)衍生物，以及任何其他錫烷，二辛基-，雙(脂肪醯氧基)衍生物。其中C12為脂肪醯氧基部分的主要碳原子數 (Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety)***	-
212.	1,4-二氧陸圜 (1,4-dioxane) (CAS No.: 123-91-1)	0.05
213.	2,2-雙(溴甲基)-1,3-丙二醇 (2,2-bis(bromomethyl)propane1,3-diol) (BMP) (CAS No.: 3296-90-0)	0.05
	3-溴-2,2-雙(溴甲基)-1-丙醇 (2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol) (TBNPA) (CAS No.: 36483-57-5, 1522-92-5)	0.05
	2,3-二溴-1-丙醇 (2,3-dibromo-1-propanol) (2,3-DBPA) (CAS No.: 96-13-9)	0.05

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中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

No.	物質名稱 (Substance Name)	RL
214.	2-(4-叔丁基苄基)丙醛及其個別立體異構物 ((2R)-3-(4-叔丁基苯基)-2-甲基丙醛; 2-(4-叔丁基苄基)丙醛; (2S)-3-(4-叔丁基苯基)-2-甲基丙醛) (2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers ((2R)-3-(4-tert-butylphenyl)-2-methylpropanal; 2-(4-tert-butylbenzyl)propionaldehyde; (2S)-3-(4-tert-butylphenyl)-2-methylpropanal)) (CAS No.: 75166-31-3; 80-54-6; 75166-30-2)	0.05
215.	雙酚B (4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)) (CAS No.: 77-40-7)	0.05
216.	戊二醛 (Glutaral) (CAS No.: 111-30-8)	0.05
217.	中鏈氯化石蠟 (C14-16); 中鏈氯化石蠟 (C14-17); 二、三及四氯十四烷; 十四烷氯衍生物 (Alkanes, C14-16, chloro; Alkanes, C14-17, chloro; di-, tri- and tetrachlorotetradecane; Tetradecane, chloro derivs.) (CAS No.: 1372804-76-6; 85535-85-9; 198840-65-2)	0.05
218.	硼酸鈉鹽 (Orthoboric acid, sodium salt)*** (CAS No.: 13840-56-7)，硼酸鈉鹽及其水合物; 硼酸二鈉鹽; 硼酸三鈉; 硼酸鈉; 硼酸鈉鹽 (1:1) (boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1)) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 14890-53-0) (※ U)	-
219.	經由低聚合反應烷基化的苯酚產物(主要在對位位置)帶有12個碳的支鏈或直鏈，並涵蓋各種同分異構物及/或其各種組合 (支鏈 4-十二烷基苯酚; 4-異十二烷基苯酚; 4-異十二烷基苯酚; 支鏈十二烷基苯酚; 四丙烯基苯酚衍生物; 四丙烯苯酚) (Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (Phenol, 4-dodecyl, branched; 4-isododecylphenol; Phenol, 4-isododecyl-; Phenol, dodecyl-, branched; Phenol, (tetrapropenyl) derivatives; Phenol, tetrapropylene-)) (CAS No.: 210555-94-5; 27459-10-5; 27147-75-7; 121158-58-5; 74499-35-7; 57427-55-1)	0.05
220.	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亞甲基]二環[2.2.1]庚烷-2-酮，包括各個異構體和/或其組合 ((±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof) (4-MBC)	0.05
221.	6,6'雙二叔丁基-2,2'-亞甲基雙對甲酚 (6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol) (DBMC) (CAS No.: 119-47-1)	0.05
222.	硫-(三環[5.2.1.0'2,6]癸-3-烯-8(或9)-基) 氧-(異丙基或異丁基或2-乙基己基) 氧-(異丙基或異丁基或2-乙基己基)二硫代磷酸酯 (S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate) (CAS No.: 255881-94-8) (※ G)	0.05
223.	三(2-甲氧基乙氧基)乙烯基矽烷 (Tris(2-methoxyethoxy)vinylsilane) (CAS No.: 1067-53-4)	0.05
224.	N-羥甲基丙烯醯胺 (N-(hydroxymethyl)acrylamide) (CAS No.: 924-42-5)	0.05
225.	1,2-雙(2,4,6-三溴苯氧基)乙烷 (1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]) (CAS No.: 37853-59-1)	0.05
226.	四溴雙酚A (2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol) (CAS No.: 79-94-7)	0.05
227.	雙酚S (4,4'-sulphonyldiphenol) (CAS No.: 80-09-1)	0.05

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No.	物質名稱 (Substance Name)	RL
228.	偏硼酸鋇 (Barium diboron tetraoxide)*** (CAS No.: 13701-59-2) (※ A)	-
229.	雙(2-乙基己基)四溴鄰苯二甲酸酯，覆蓋任何單個異構體和/或其組合 (Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof)	0.05
230.	4-羥基苯甲酸 2-甲基丙酯 (Isobutyl 4-hydroxybenzoate) (CAS No.: 4247-02-3)	0.05
231.	三聚氰胺 (Melamine) (CAS No.: 108-78-1)	0.05
232.	全氟庚酸及其鹽類 (Perfluoroheptanoic acid and its salts)	0.05
233.	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)嗎啉和2,2,3,3,5,5,5,6,6-八氟烷-4-(七氟丙基)嗎啉的反應物料 (reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine) (※ I)	0.05
234.	4,4'-二氯二苯基碸 (Bis(4-chlorophenyl) sulphone) (CAS No.: 80-07-9)	0.05
235.	(2,4,6-三甲基苯甲醯基)二苯基氧化磷 (Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) (CAS No.: 75980-60-8)	0.05

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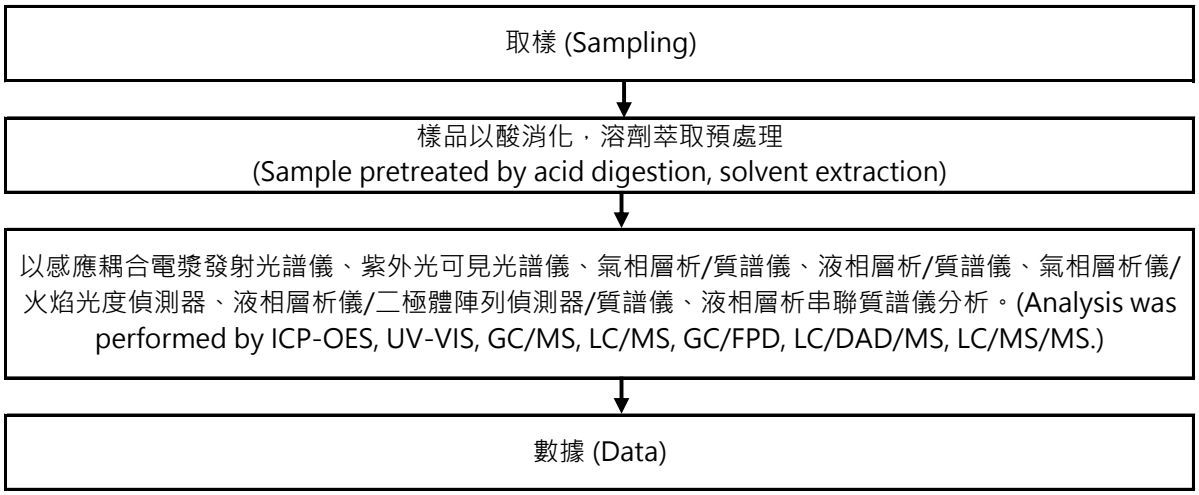
SVHC 分析流程圖 (Analytical flow chart of SVHC)



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測試報告
Test Report

中國鋼鐵股份有限公司 (CHINA STEEL CORPORATION)
高雄市小港區中鋼路1號 (1 CHUNG KANG ROAD, HSIAO KANG, KAOHSIUNG 812401, TAIWAN, REPUBLIC OF CHINA)

*** 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.)

EKR23701429



** 報告結尾 (End of Report) **

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CHINA STEEL 中鋼公司

安全資料表(SDS)

一、物品與廠商資料

物品名稱：線材、棒鋼、鋼板、熱軋鋼捲片、熱軋 P/O(Wire Rods，Steel Bars，Steel Plates，Hot-Rolled Steel Coils & Sheets & Plates、Hot-Rolled P/O)	
物品編號：	
製造商或供應商名稱、地址及電話：中國鋼鐵股份有限公司 812 高雄市小港區中鋼路 1 號	
緊急聯絡電話：(07)802-1111	傳真電話：(07)8039553

二、危害辨識資料

重要物理性及 化學性危害與效應	1.與強酸接觸會起反應產生可燃性氫氣。 2.銲接或加熱會產生氧化鐵燻煙。

三、成分辨識資料

純物質：

物品中（英）文名稱：鋼(STEEL)		
同義名稱：		
化學文摘社登記號碼(CAS.NO.)：鐵：07439-89-6		
危害物質成分(成分百分比)：鐵>96%		
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
鐵(Fe)	>96%	

四、急救措施

不同暴露途徑之急救方法：

- 吸入：本產品形態食入之可能性相當低。
- 眼睛接觸：立即將眼皮撐開，用大量水沖洗 15 分鐘。本產品形態進入眼睛之可能性相當低。
- 皮膚接觸：立即用肥皂和水清洗，本產品形態造成刺激皮膚之可能性相當低。

五、滅火措施

適用滅火劑：使用適合週遭火災之滅火器。	
滅火時可能遭遇之特殊危害：1.此物若以大塊型式存在時，不可燃。 2.若以微細粉末存在時，遇火源有引起爆炸的危險。 3.本產品若熔化或燃燒，則會產生毒性或刺激性蒸汽，請使用個人呼吸防護器具。	

六、洩漏處理方法

本產品為固體狀不適用。

七、安全處置與儲存方法

一般使用：本產品邊緣為尖銳薄片或捲片，進行各項作業必須使用個人防護器具，所有員工必須接受訓練以安全地進行各項作業。

儲存建議：建議儲存於可防止實體破壞、濕氣、直接日曬之場所。

八、暴露預防措施

重要成分	化學文摘社登記號碼 CAS NO.	重量比例 (%)	暴露限制	
			OSHA PEL	ACGIH TLV
鐵 Iron	7439-89-6	96	未建立	未建立

工程控制：

1. 在進行燃燒、銅鑄、切割、研磨、打光、銲接或其他機械加工時，應使用機械通風裝置。
2. 若在進行機械加工時，有產生粉塵或微粒狀物質，建議採用局部及一般通風裝置以預防過多的危害物質暴露。

個人防護設備：

眼睛防護：在進行本產品作業時請穿戴化學安全護目鏡。

呼吸防護：如需符合暴露標準 在進行切割、研磨、打光或銲接等機械加工作業時，應使用自攜式呼吸防護具。 皮膚防護：1.使用皮革或防割傷手套以免被尖銳薄片或捲片割傷。 2.使用防滲透手套以免被皮膚接觸表面油污。 身體防護：1.連身式防護衣。 2.工作鞋。 3.工作區要有淋浴/沖眼設備。
衛生措施： 1.工作場所嚴禁飲用、抽煙或飲食。 2.處理此物後，須徹底洗手。

九、物理及化學性質

物質狀態：固體	形狀：薄片或捲片
顏色：金屬性灰色	氣味：無味
pH 值：不適用	閃火點：不適用
熔解溫度：1535℃	
自燃溫度：不適用	爆炸界限：不適用
密度：7.5－8.0（水＝1）	溶解度：不溶於水
熔點/凝固點：不適用	揮發速率：不適用
易燃性(固態、氣態）：不適用	分配係數(正辛醇/水）：不適用

十、安定性及反應性

安定性：正常狀況下安定
應避免之狀況：濕氣及腐蝕性物質會氧化本物質
應避免之物質：酸類、A 類及 B 類爆炸物、強性氧化物、腐蝕劑
危害分解物：引燃或熔解可能會產生有產生毒性或刺激性蒸汽

十一、毒性資料

急毒性(Acute Effects)：

鐵(Iron) LD50(測試動物暴露途徑)：30 g/kg(大鼠，吞食)

過度暴露效應(Symptoms of Overexposure)：

鐵**(Iron Oxide)**：過度暴露或重覆暴露於高濃度狀況下，可能造成塵肺病 pneumoconiosis，吸入氧化鐵可能會刺激眼睛、鼻子及喉嚨。

矽**(Silicon)**: 主要為厭惡性粉塵(Nuisance Dust)，可能會刺激眼睛及黏液薄膜(Mucous Membranes)，本產品型態無此危害。

十二、生態資料

現有資料無影響生態之考量

十三、廢棄處置方法

廢棄處置方法：1.參考相關法規處理。
2.相關法規可能會限制金屬性廢棄物之處置。
3.建議採取回收金屬性廢棄物。

十四、運送資料

無特殊運送方法

十五、法規資料

適用法規：
職業安全衛生設施規則

危害性化學品標識及通識規則 勞工作業環境空氣中有害物容許濃度標準 事業廢棄物貯存清除處理方法及設施標準

十六、其他資料

參考文獻		
製表者單位	名稱：中國鋼鐵股份有限公司	
	地址/電話：812 高雄市小港區中鋼路 1 號，Tel：(07)8021111	
製 表 人	職稱：工 程 師	姓名（簽章）：胡哲源
製表日期	2023.01.05	
備　　註	1. 本安全資料表僅供參考，中國鋼鐵股份有限公司對使用本資料不承擔任何法律責任或提供任何保證。 2. 本安全資料表之提供是基於對本產品的安全及健康危害相關資訊之最佳瞭解，以安全地進行本產品之各項作業及處理。 3. 每位進行本產品之各項作業及處理之人員應先閱讀本安全資料表，瞭解如何進行本產品之各項作業及處理；也應考量本產品與其他製造廠商產品可能之應用。	

測試報告
Test Report

晉利實業有限公司 (JINN LIN PAINTS CO., LTD.)
新北市樹林區大安路145巷8號 (NO. 8, LANE 145, DAH AN RD., SHU LIN DISTRICT, NEW TAIPEI CITY, 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)	:	晉利實業有限公司 (JINN LIN PAINTS CO., LTD.)
樣品名稱(Sample Name)	:	混合塗料

==========

收件日(Sample Receiving Date)	:	03-May-2023
測試期間(Testing Period)	:	03-May-2023 to 10-May-2023

測試需求(Test Requested) :

(1) 依據客戶指定，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, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 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.)

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

PIN CODE: E8EA38DE

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測試部位敘述 (Test Part Description)

No.1 : 灰色塗料(客戶自行調配之樣品) (GRAY PAINT (SAMPLE IS BLENDED BY CLIENT))

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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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	58.5
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.
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	109
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	261
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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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)

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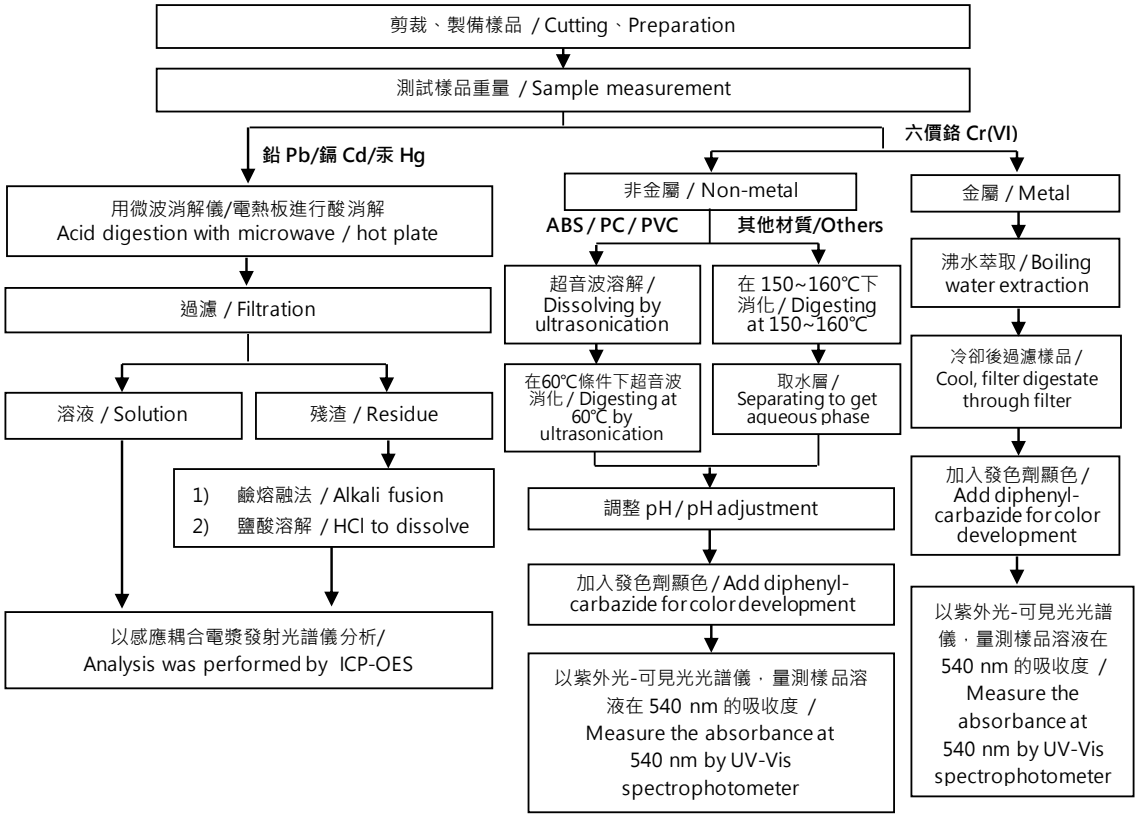
重金屬流程圖 / Analytical flow chart of heavy metal

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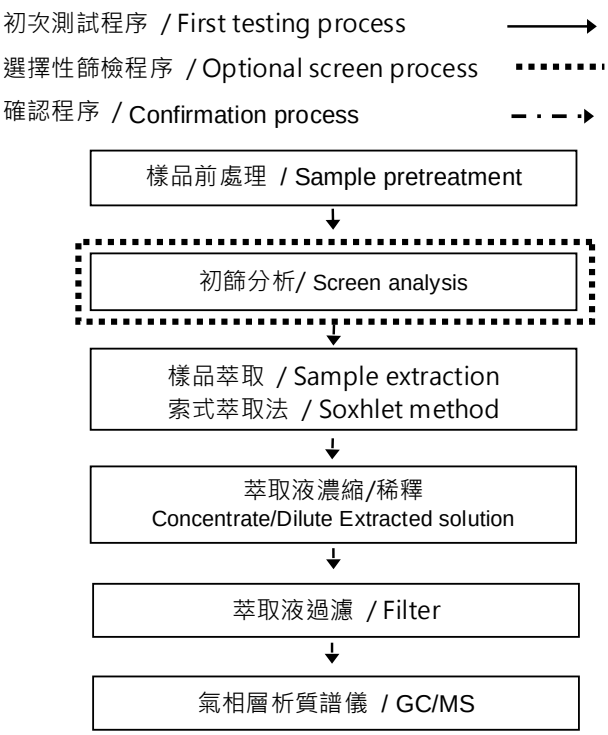
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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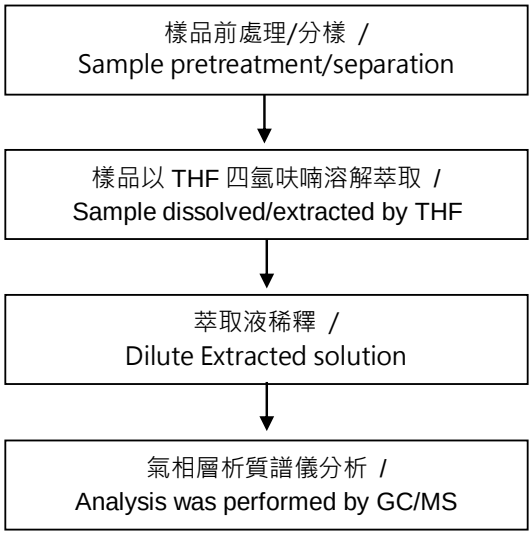
可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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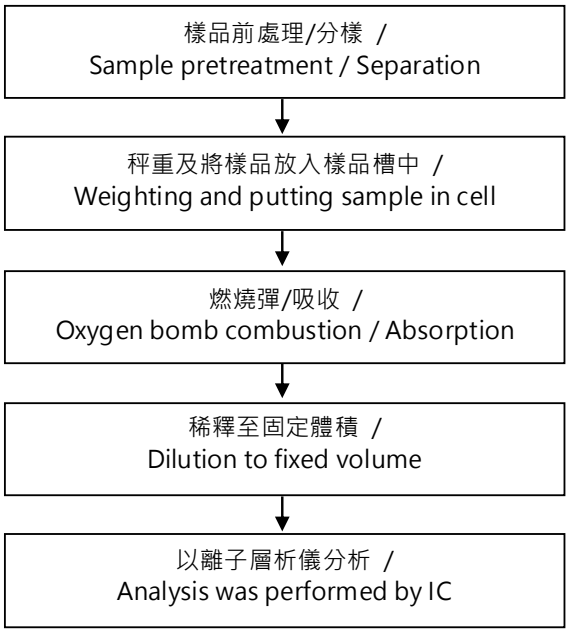
鹵素分析流程圖 / Analytical flow chart - Halogen



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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.)

ETR23500344



** 報告結尾 (End of Report) **

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物質安全資料表

一、物品與廠商資料

物品名稱：油漆溶劑-100(High-Flash Aromatic Naphtha-100)
其他名稱：芳烴碳氫化合物、Aromatic 100
建議用途及限制使用：高溶解力之溶劑，廣用於烤漆、油漆、凡立水等塗料調製，工業上多 用作殺蟲劑、木材防腐劑、人造樹脂、紡織品印染劑等之溶劑。
製造商或供應商名稱：晉利實業有限公司 地址：新北市樹林區潭底里大安路 145 巷 8 號 電話：02-2683-4494

二、危害辨識資料

物品危害分類：易燃液體第 3 級、腐蝕／刺激皮膚物質第 2 級、嚴重損傷／刺激眼睛物質 第 2 級、吸入性危害物質第 1 級、水環境之危害物質第 2 級（慢毒性）。
標示內容：  1.象徵符號：火焰、驚嘆號、健康危害及環境。 2.警示語：危險 3.危害警告訊息：(1)易燃液體和蒸氣。(2)造成皮膚刺激。(3)造成眼睛刺激。(4)如果吞食 並進入呼吸道可能致命。(5)對水生生物有毒並具有長期持續影響。 4.危害防範措施：(1)嚴禁煙火。(2)使用個人防護具。(3)火災時使用乾粉、泡沫、二氧化 碳、水霧等滅火。(4)皮膚沾染，眼睛濺傷，速以大量水沖洗。(5)誤食入 勿催吐，儘速送醫。
其他危害： -

三、成分辨識資料

混合物：

化學性質：芳香烴類	
危害物質成分之中、英文名稱	濃度或濃度範圍（成分百分比）
三甲苯 (Trimethylbenzene) CAS NO.25551-13-7	55～65

四、急救措施

不同暴露途徑之急救方法：

●吸入：趕快將中毒者帶離現場，移至安靜涼爽，通風良好的地方，如面色蒼白，使其平 躺，雙腳墊高; 如面色紅赧，則頭側向一邊，雙腳墊高，鬆開領口及皮帶，立即 送醫。

●皮膚接觸：將中毒者移開污染區，將感染皮膚外的衣服脫除，在水龍頭下用清水和肥皂 清洗感染處，如果皮膚感覺炙痛或刺痛，立刻送醫急救，將視同燙傷處理。 如果皮膚不痛不紅而只有乾燥感覺，可觀察六小時 再決定是否送醫。

●眼睛接觸：將中毒者移開污染區，在水龍頭或洗眼器下沖洗眼睛十五分鐘以上，並將上 下眼皮翻開慢慢轉動眼睛 使沖洗澈底，如果疼痛持續則送至眼科醫生處進一 步治療。

●食入：必須儘快將胃內之溶劑移除（可用活性碳 1g/kg 體重）。不要對中毒者施行催吐， 以免引起肺部併發症，同時鬆開領口及皮帶，立刻送醫。

最重要症狀及危害效應：會引起呼吸道、眼睛及皮膚之刺激作用，亦可能影響中樞神經系統。慢性與急性健康 危害效應相似，同時可能會影響生殖功能、肝、腎及心臟功能。

對急救人員之防護：

1.穿戴防護衣服(包含防溶劑手套)在安全區實施急救，以免接觸污染物。

2.戴化學護目鏡。

對醫師之提示：吸入中毒，可考慮用氧氣輔助呼吸。患者吞食時，考慮洗胃。

五、滅火措施

適用滅火劑：化學乾粉、泡沫、二氧化碳、水霧（勿用水柱大量噴灑）

滅火時可能遭遇之特殊危害：

加熱燃燒可能會釋出有毒碳氧化物或環狀碳氫化合物。易燃液體，蒸氣比空氣重，洩漏 會延地面傳播至遠處，遇著火源立即引燃，並有回火之危險。

特殊滅火程序：

(1) 用水滅火是無效的，但可噴水以冷卻火場之容器，以防膨脹爆炸。

(2) 滅火人員須穿戴防護具，在上風處滅火。

(3) 停止溶劑的外洩與流動並覆上滅火劑，隔離外洩區所有的火源如果可能儘量移開儲存 容器，或用水冷卻災區附近之容器，注意噴水時不要太靠近。

(4) 溶劑液體會浮於水面上，可能傳播至遠處而將火勢蔓延開。

(5) 易與氧化劑劇烈反應。

(6) 儘量使用自動或固定式滅火設備滅火，人員避免進入災區。

(7) 若外洩區還未著火，以水霧分散蒸氣，並保護阻止外洩人員的安全，但不得以水霧直 接噴灑洩出之油面。

消防人員之特殊防護設備：

消防人員須穿戴防護具，在上風處救火。若未攜帶適當防護裝置及空氣呼吸器，不得進 入密閉之空間。

六、洩漏處理方法

個人應注意事項： (1)污染區尚未完全清理乾淨前，限制非必要人員接近該區。 (2)確定止漏及清理工作是由受過訓練人員負責。 (3)穿戴防護裝備才能進入洩漏區，不可直接接觸漏出液，可能會導致中毒。
環境注意事項： (1)對該區進行通風換氣，注意機具要用防爆型。 (2)隔絕所有火源、熱源等發火源。 (3)通知政府安全衛生、環保、消防相關單位。 (4)避免洩出物進入下水道或密閉空間。
清理方法： (1)移走所有火源，不可接觸漏出液。 (2)封閉汙染區，附近人員撤離。 (3)用水噴灑現場，降低空氣中蒸氣濃度。 (4)洩漏時救災人員須配戴正壓式全面型自攜式呼吸防護具，其他人員速遠離現場。 (5)災區附近絕對嚴禁煙火。 (6)洩漏區施行有效通風，阻斷溶劑源，注意引爆濃度。 (7)如為小規模洩漏，可用砂或其他吸附劑吸收後放入乾淨密閉容器中再行處理。 (8)如為大規模洩漏則須建堤圍堵 (用土、砂袋、混凝土或 Polyurethane)，避免讓其擴散出去，再收集一起處理。 (9)不可將漏出液倒入排水溝中，以免燃燒爆炸。

七、安全處置及儲存方法：

處置： (1)此物質是易燃性液體及毒性液體，處置時工程控制應運轉及善用個人防護設備；工作人員應受適當有關物質之危險性及安全使用法之訓練。 (2)除去所有發火源並遠離熱及不相容物。 (3)工作區應嚴禁煙火，並有“禁止抽煙”標誌。 (4)液體會累積電荷，考慮額外之設計以增加電導性。如所有桶槽、轉裝容器和管線都要接 地，接地時必須接觸到裸金屬，輸送操作中，應降低流速，增加操作時間，增加液體留 在管線中之時間或低溫操作。 (5)當調配之操作不是在密閉系統進行時，確保調配的容器和接收的輸送設備和容器要等電 位連接。 (6)空的桶槽、容器和管線可能仍有具危害性的殘留物，未清理前不得從事任何焊接、切割、 鑽孔或其它熱的工作進行。 (7)作業避免產生霧滴或蒸氣，在通風良好的指定區內操作並採最小使量用，操作區與貯存 區分開。
儲存：

(1)使用相容物質製成的貯存容器，分裝時小心不要噴灑出來。不要在貯存區進行調配工作。
(2)不要與不相容物一起使用(如強氧化劑)以免增加火災和爆炸的危險。
(3)不要將受污染的液體倒回原貯存容器。
(4)容器要標示，不使用時保持緊密並避免受損。
(5)貯存區應標示清楚，通道無障礙物，限指定或受過訓的人員進入。
(6)檢查所有新進容器是否適當標示並無破損。
(7)貯存在陰涼、乾燥、通風良好以及陽光無法直接照射的地方，遠離熱源、發火源及不相 容物。
(8)以相容物質製成的貯存容器裝溢漏物。
(9)貯存區和大量操作的區域，考慮安裝溢漏和火災偵測系統及適當的自動消防系統或足夠 且可用的緊急處理裝備。
(10)門口設斜坡或門檻或挖溝槽使洩漏物可排放至安全的地方。
(11)貯槽須為地面貯槽，底部整個區域應封住以防滲漏，周圍須有能圍堵整個容量之防溢堤。

八、暴露預防措施

工程控制：
(1)使用不會產生火花且接地之通風系統並與其他排氣裝置系統分開，而直接排放至戶外。
(2)要採用局部排氣通風及製程隔離來控制空氣中蒸氣及霧滴之量。
(3)採排氣系統時須提供足夠之空氣來置換被排除之空氣。

控制參數：

危害物質成分	八小時日時量 平均容許濃度 TWA	短時間時量 平均容許濃度 STEL	最高容許濃度 CEILING	生物指標
三甲苯 (Trimethylbenzene）	25ppm (123 mg/m^3）	37.5ppm (184.5 mg/m^3）	-	-

個人防護設備：
呼吸防護：在危害濃度大於容許濃度以上，應使用適當呼吸防護具。
手部防護：若需接觸油料時，則戴適當的防護手套。
眼睛防護：不要讓油料進入眼睛。若有可能接觸到眼睛時，戴化學護目鏡。
皮膚及身體防護：若有可能接觸到皮膚與身體時，穿適當的防護衣服。

衛生措施：
(1)應使用合格之防護具，並每日檢查是否有破損，隨時更新。
(2)工作後儘速脫掉污染衣物，洗淨後才可穿戴或丟棄，且須告知清洗人員污染物之危害性。
(3)工作場所嚴禁抽煙或飲食。
(4)維持作業場所清潔。

九、物理及化學性質

外觀（物質狀態、顏色等）：無色液體	氣味：特殊芳香味

嗅覺閾值:-	熔點:-
pH 值：-	沸點／沸點範圍：155～175℃(311～347℉)
易燃性(固體、氣體)：／	閃火點： 38℃(100℉) 測試方法：閉杯
分解溫度：-	
自燃溫度：～250 ℃(～482℉)	爆炸界限：1.2%～7.5%（參考值）
蒸氣壓：0.2 kpa(25℃)	蒸氣密度（空氣=1）：>1
密度（水=1）：0.86~0.88 (15℃)	溶解度：微溶於水
辛醇/水份配係數(log Kow):-	揮發速率(正醋酸丁酯=1):0.2

十、安定性及反應性

安定性：常溫常壓下安定。
特殊狀況下可能之危害反應：避免加熱、嚴禁煙火及靜電產生，與空氣混合有爆炸之可能。
應避免之狀況：避免加熱、嚴禁煙火及靜電產生，隔絕各種發火源。
應避免之物質：強氧化劑（如過氧化物、硝酸鹽、過氯酸鹽）、羰基鎳(NICKEL CARBONY L) +氧(OXYGEN)。
危害分解物：熱分解會釋出有毒碳氧化物，如一氧化碳。

十一、 毒性資料

暴露途徑：吸入、皮膚、食入、眼睛
症狀：咳嗽、無胃口、反胃、嘔吐、頭痛、麻痺、肺充血、痙攣、皮膚炎、支氣管炎、記 憶衰退、四肢疼痛及麻痺、胸部緊和昏睡。
急毒性： 吸入： 三甲苯： 1.霧滴和蒸氣會造成鼻、咽喉及肺之刺激感。 2.症狀有頭痛、頭昏眼花、噁心、平衡感及注意力降低以及中樞神經系統機能抑制等其他症狀。 皮膚： 三甲苯：此物質為原發性皮膚刺激劑，會引起發紅、乾燥及脫脂等症狀。但未必會經 由皮層吸收。 食入： 三甲苯： 1.造成噁心、嘔吐、頭痛、頭昏眼花、精神混亂及其他中樞神經系統機能抑制之症狀。 2.大量則會失去意識甚至死亡，若液體被吸入肺部，會對肺部造成嚴重傷害 或死亡。 3.及其他影響與食入芳香烴類似。 眼睛：

三甲苯：霧滴及蒸氣可能造成刺激感，但無人類之研究資料。

(1)LC50（測試動物、暴露途徑）： 三甲苯：24 g/m3/4H (大鼠，吸入)。
(2)LD50（測試動物、暴露途徑）： 三甲苯：8970 mg/kg（大鼠，吞食）。

慢毒性或長期毒性：
吸入：
三甲苯：困倦、疲勞、頭痛、支氣管炎、血液凝結系統干擾、記憶衰退、四肢疼痛及 麻痺、行為改變等。

皮膚：
三甲苯：皮膚炎(腫包、發紅、發癢及龜裂)。此物質之毒性效應可能會因酒精之作用 而增加。不會累積於體內，小量會由肺排出，大部份會因新陳代謝而產生水 溶性化合物並由尿液排出。

十二、 生態資料

生態毒性：
1. LC50(魚類)：-
2. EC50(水生無脊椎動物)：-
3.生物濃縮係數(BCF)：-

持久性及降解性：
三甲苯：
1.氣態在大氣中會與光化學產物作用分解，其半衰期約一週至兩個月。
2.在土壤或水體中有氧情況下可被微生物分解。無氧情況下之厭氧微生物則無 法分解。
3.其在水體中會揮發至大氣中，由模擬河流及模擬湖泊試驗，半衰期分別為 3 小時及 4 天。
4.6.EC50：50mg/L,24 小時（水蚤）。
5.非脊椎動物毒性試驗 LC50：5400μg/L 96 小時（草蝦）。

生物蓄積性：三甲苯：水體中生物體內會蓄積。

土壤中之流動性：三甲苯：其在土壤中之移動性低，易被土壤吸附。

其他不良效應：若洩漏流佈至下水道或地下室，遇火源可能造成火災或爆炸。

十三、 廢棄處置方法

廢棄處置方法：
(1)安全且可行情況下，回收廢溶劑，其處理必須由受過訓且有經驗的人使 用適當防護設備於合格之操作設施執行。
(2)參考相關廢棄物法規處理。
(3)可採用特定焚化法處理。
(4)需符合相關環保法規。

十四、 運送資料

聯合國編號：UN 1268
聯合國運輸名稱：油漆溶劑-100
運輸危害分類：第三類易燃液體。
包裝類別：Ⅲ
海洋污染物（是/否）：否
特殊運送方法及注意事項：-

十五、 法規資料

適用法規： 1.勞工安全衛生設施規則。 2.危險物與有害物標示及通識規則。 3.有機溶劑中毒預防規則。 4.勞工作業環境空氣中有害物質容許濃度標準。 5.道路交通安全規則。 6.廢棄物清理法。 7.事業廢棄物貯存清除處理方法及設施標準。 8.公共危險物品及可燃性高壓氣體設置標準暨安全管理辦法。

十六、 其他資料

參考文獻	1.行政院勞工委員會 GHS 網站。 2.HSDB 資料庫，CHEMpendium 光碟，99-3。 3.OHS 光碟資料庫。 4.TLVs and Other Occupational Exposure Values，ACGIH 光碟，1999.
製表單位	名稱：晉利實業有限公司
	地址/電話：新北市樹林區潭底里大安路 145 巷 8 號／02-2683-4494
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