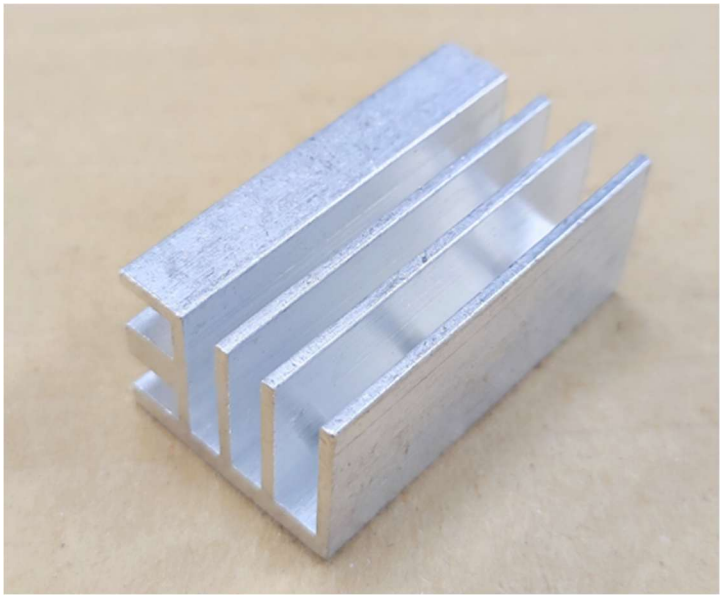
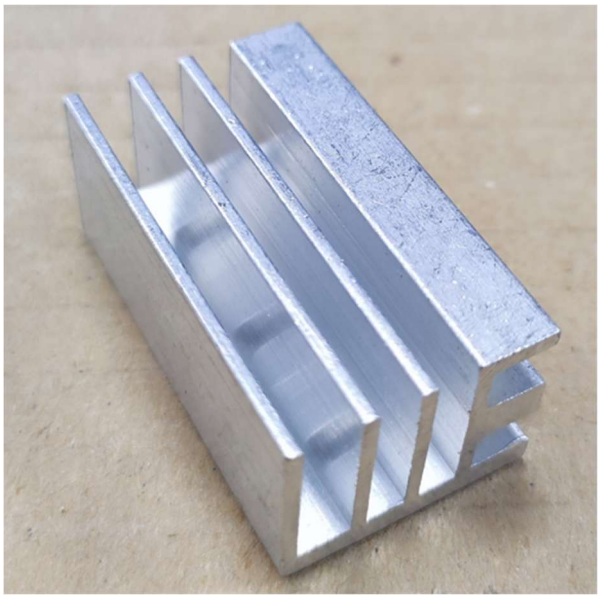
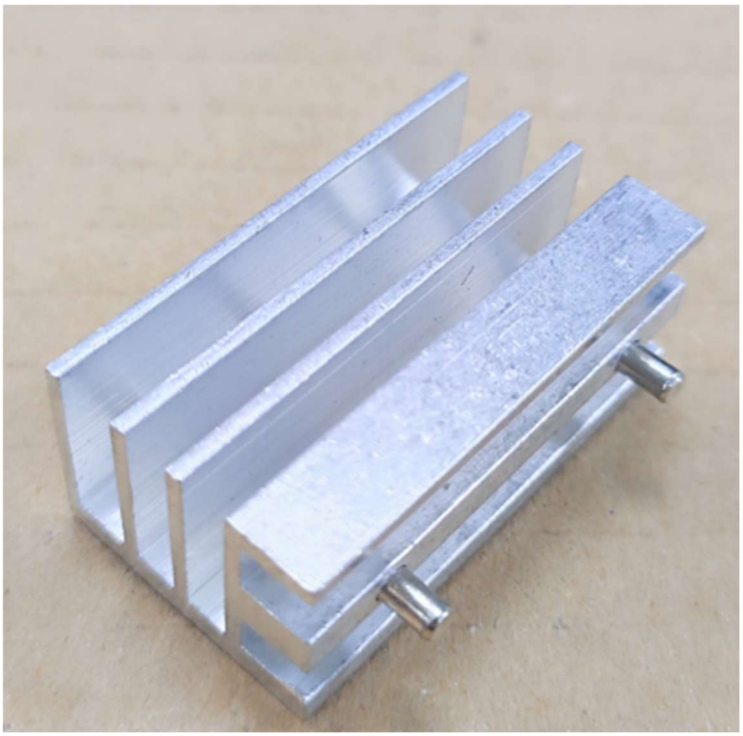
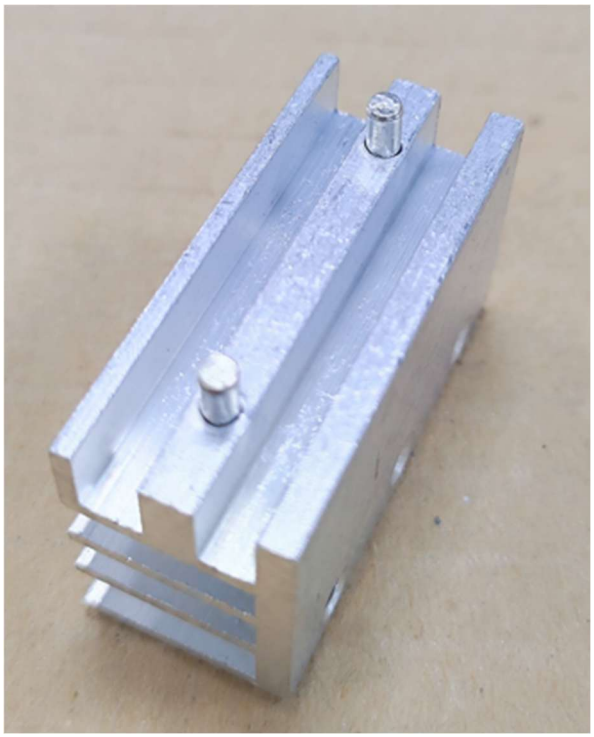
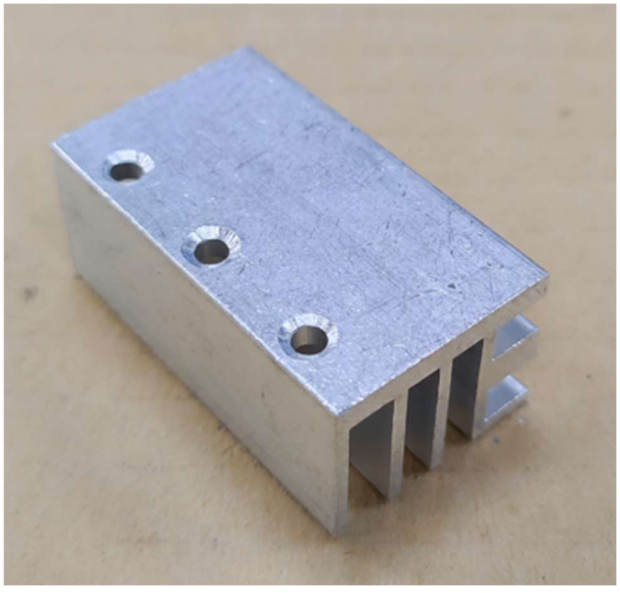










設計驗證
工程課
2025 -06- 24
發行
鈺緯科技開發股份有限公司

蘇州堯峰電子有限公司

SUZHOU YAOFENG ELECTRON CO.,LTD

承 認 書

客戶名稱：

CUSTOMER DIVA

客戶機種：

CUSTOMER MODEL HSINK-35-15-20-EW

客戶品名規格：

CUSTOMER PARTNAME /

客戶料號：

CUSTOMER PART NUMBER 3H07G010350 (H0225)

＊＊＊公司確認簽章：　　送樣日期：2025.06.07

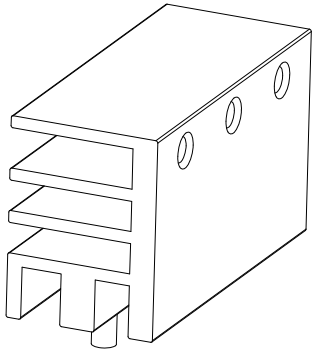
經 辦 Prepared By	審 核 Checked By	核 准 Approved By
翟艳华	罗伟雄	杨元昌

客戶承認簽章：　　承認日期：

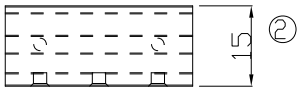
經 辦 Prepared By	審 核 Checked By	核 准 Approved By
		設計驗證 工程課 2025 -06- 24 發行

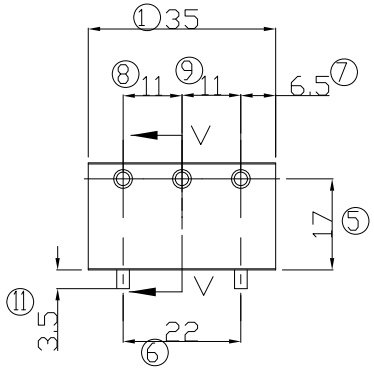
公司地址：苏州望亭镇何家角村杭桥路 28 号
电话：0512-69221338
传真：0512-69222338
E-MALL：yaofeng@yaofengelectric.com

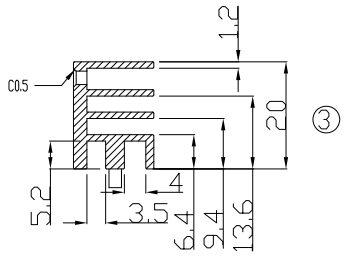
PART NO	REV	SYMBOL	DESCRIPTION	LOCATED	REASON	SIGN	DATE
	A		FIRST RELEASE				



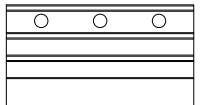
SCALE 2.000



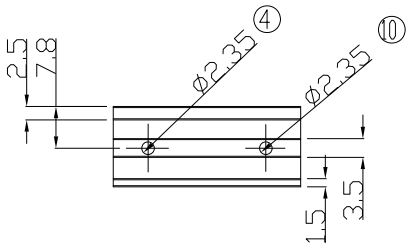




SECTION V-V



Rivet Pin (Material: SWCH22A,Tin plating)



NOTES:

1. ① This symbol indicated critical dimension.
2. △B This symbol indicated revision.
3. □ This symbol indicated special specification.
4. Material:AL6063
5. Color:nature
6. Break all sharp edges
7. Tolerance refer to the class grade B,unless other specified.
8. Rrivet Pin can't be puted out by 8kg forced.

設計驗證
工程課
2025 -06- 24
發行
旺詮科技開發股份有限公司

3H07G010350(H0225)

MODEL	EW2730/2430		NAME	HSINK_35_15_20_EW		
DRN	YungChih Lin	13-Oct-10	MATERIAL	AL6063		
DSN	YungChih Lin	13-Oct-10	FINISH			
CKD	Tim Shiu	13-Oct-10	SCALE	1.000	DIM IN	mm
APPD	Smile Lin	13-Oct-10	SHEET	1 OF 1	CAVITIES	
Qisda Corporation						

TOLERANCE UNLESS OTHERWISE SPECIFIED (±)							
CLASS	A	B	C	D	E	F	G
< 8mm	0.05	0.1	0.1	0.2	0.2	0.4	0.4
8 ~ 25mm	0.08	0.15	0.15	0.3	0.3	0.6	0.6
25 ~ 80mm	0.12	0.2	0.25	0.4	0.5	0.8	1.0
80 ~ 250mm	0.25	0.3	0.4	0.6	0.8	1.2	1.5
250 ~ 800mm	0.5	0.6	0.8	1.0	1.5	2.0	3.0
> 800mm	1.0	1.0	1.5	1.7	3.0	4.0	6.0
ANGLE	0.5						
FILE NAME							
PART NO.	3D.1DG04.001						

大安鋁業股份有限公司
化學光分析報告
SPECTROCHEMICAL QMQLYSIS REPORT

新竹縣芎林鄉鹿寮坑 176 之 1 號

客戶：順鋒科技鋁業（蘇州）有限公司

NO.256-5,2 LINT,HWA-LUNG
VILLAGE,CHUNG-LIN,HSIN-CHIU
HSIEN,TAIWAN,R.O.C.
TEL:886-3-5933033 FAX:886-3-5932687

AL-6061 Al-6063 09/05/08 15:20
Sample-NO FBI78-238
Sample-ID 7-3946 Quality 6063A
Average of 6 sparks

Si	Fe	Cu	Mn	Mg	Zn	Ni
0.435	0.150	0.038	0.044	0.534	0.018	0.005
Cr	Pb	Sn	Ti	B	Bi	Bi
0.080	<0.002	<0.002	0.025	<0.001	<0.001	<0.001
Na	Sr	Li	V	Zr	Al	以下空白
<0.001	<0.001	<0.001	0.0056	0.002	餘量	

PS：此報告僅對本公司產品負責。 分析員：謝秀美

順鋒科技鋁業(蘇州)有限公司

Qisda

会 议 记 录(Meeting Minutes)

会议名(Meeting Name)：2pin 脚贴片式散热片增加背胶 开会日期（Date）：20111118 时间（Time）： 到（To）： 地点（Address）：

参加人员（Attendee）：

主席（Chairman）： 记录员（Recorder）：

项目 (Item)	提案或问题陈述 (Overture Or Matters)	分析决议及改进行动 (Resolutions And Improvements)	负责人 (Functionary)	完成日期 (Due Day)	备注 (Remark)
问题：	防止发生 2pin 脚贴片式散热片脱落问题。				
原因：	1，Pin 脚镀铜层&镀锡层厚度 issue；				
	2，Pin 脚镀铜前除油未除干净，导致铜层附著力不够。				
定义：	1，涉及材料料号：3D.04801.00X/3D.0K101.00X/3D.L2Q02.00X				
	2，镀铜层厚度：2μ~3μ；				
	3，镀锡层厚度：3μ~5μ；				
	4，镀铜与镀锡工艺前以及镀锡后须将表面油污/杂质等清洗干净，去除氧化层。				
要求：	PIN 脚电镀品质管理重点：将镀铜及锡前的清洗参数做追踪管控（配比、时间、温度，等） 将电镀过程参数做追踪管控（电镀液配比、电镀时间、电镀液温度，等）。				
	散热片厂品质管理重点： 每批 PIN 脚入料时需使用专业膜厚测试仪器抽测并记录，针对同一批次抽检数量不低于 32pcs； 测试点：PIN 脚吃锡端部和中部，共 64 个测试点均需满足标准 每批 PIN 脚领用需作记录追踪散热片使用的 PIN 脚批次 PIN 脚包装需用袋装封口减少氧化风险，保存期限<3 个月 吃锡性测试：浸锡引脚表面光滑，且 95%被锡覆盖				
处罚：	以上条款如有违反，按品质协议处罚。				

佳世达电通 Qisda Corporation

尧峰电子包裝計划書

客戶	Qisda	料號	3D.1DG04.001	材質/色號	AL6063	包裝規格	800PCS／箱	版本	A0
		品名描述		铝质散热片					

1.每袋100PCS，每层4袋400PCS產品.
2.每箱放2 層,每層400PCS,共 800 PCS.
3.產品外箱標簽要注明品名、料號、數量、日期.



作業程序 & 注意事項

1 作业程序： 組裝————全檢————包裝————裝箱————檢驗————入庫————出貨檢驗————出貨
2. 注意事项：注意产品PINk脚不能变形，每层数量不可少，外箱标识清楚不可破损，外箱标签不可涂改。

核准	審核	制定	制定日期	修訂日期
肖金辉	郝继忠	康慧	2011-11-15	

Qisda

Dimension Approval Sheet

Part No.：3D.1DG04.001	Material：AL
Desc.：HSINK AL 35*15*20 EW	Color (or Process): 银白色
Model Name：EW2730/2430	Date：2011-011-15
Vender：尧峰	Drawing Rev.：

Inspection Gauge：

			Distribution	
Caliper ..... (C)	Thickness Gauge ..... (T)	Gauge Block ..... (B)	R&D	V
Micrometer ..... (M)	Height Gauge ..... (H)	Go. No-Go ..... (G)	QC	V
Opt. Comparator ..... (O)	Dial Indicator ..... (D)	Microscope ..... (S)	Purchase	
Pin Gauge ..... (P)	Flexible Rule ..... (F)	Measuring Tape -------- (E)	Vender	V

Item	Check Code	Part Portion	Specification	+Tol	-Tol	Cav. No.	Part Reading/Condition				Judge OK/NG	Remark
							Sample 1	Sample 2	Sample 3	RD check sample		
1	①	35	+/-0.2	35.2	34.80	1#	35.05	35.03	35.00	35.03	OK	
2	②	15	+/-0.15	15.15	14.85	1#	15.02	14.98	14.95	14.98	OK	
3	③	6.5	+/-0.1	6.6	6.4	1#	6.50	6.53	6.53	6.53	OK	
4	④	11	+/-0.15	11.15	10.85	1#	11.02	11.05	11.03	11.05	OK	
5	⑤	17	+/-0.15	17.15	16.85	1#	17.00	16.98	16.99	16.98	OK	
6	⑥	3.5	+/-0.1	3.6	3.4	1#	3.52	3.50	3.55	3.52	OK	
7	⑦	22	+/-0.15	22.15	21.85	1#	22.05	22.00	22.03	22.03	OK	
8	⑧	20	+/-0.15	20.15	19.85	1#	20.03	20.00	20.02	20.00	OK	

Initiator: 邵红山　　Review By:郝继忠　　Approved By:Carl zhang

First Article Inspection

Model Name :	HSINK-35-15-20-EW	**Vendor:**	苏州尧峰电子有限公司
Part Name :	3H07G010350	**Date:**	2025-6-9
Part No :		**Surveyor:**	刘常

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 Measuring Machine

DRAWING SPECIFICATIONS				**INSPECTION RESULTS**								
ITEM	NOMINAL	+TOL	-TOL	Sample Number			Mean	% Tolerance		Acc/Rej		Inspection Method
				1	2	3		UPPER	LOWER	HIGH	LOW	
1	35.00	0.20	0.20	34.930			*34.930*	0%	35%			DC
2	15.00	0.15	0.15	14.930			*14.930*	0%	47%			DC
3	20.00	0.15	0.15	19.850			*19.850*	0%	100%		Alert	DC
4	2.35	0.10	0.10	2.250			*2.250*	0%	100%		Alert	DC
5	17.00	0.15	0.15	16.856			*16.856*	0%	96%		Alert	OMM
6	22.00	0.15	0.15	21.926			*21.926*	0%	49%			OMM
7	6.50	0.10	0.10	6.575			*6.575*	75%	0%	Alert		OMM
8	11.00	0.15	0.15	11.001			*11.001*	1%	0%			OMM
9	11.00	0.15	0.15	11.033			*11.033*	22%	0%			OMM
10	2.35	0.10	0.10	2.360			*2.360*	10%	0%			OMM
11	1.20	0.10	0.10	1.190			*1.190*	0%	10%			DC
12	5.20	0.10	0.10	5.160			*5.160*	0%	40%			DC
13	3.50	0.10	0.10	3.490			*3.490*	0%	10%			DC
14	4.00	0.10	0.10	3.950			*3.950*	0%	50%			DC
15	6.40	0.10	0.10	6.337			*6.337*	0%	63%			OMM
16	9.40	0.15	0.15	9.295			*9.295*	0%	70%		Alert	OMM
17	13.60	0.15	0.15	13.455			*13.455*	0%	97%		Alert	OMM
18	2.50	0.10	0.10	2.450			*2.450*	0%	50%			OMM
19	7.80	0.10	0.10	7.702			*7.702*	0%	98%		Alert	OMM
20	1.50	0.10	0.10	1.490			*1.490*	0%	10%			DC
21	3.50	0.10	0.10	3.450			*3.450*	0%	50%			DC

Approval：米乐新

Inspector:刘常

尧峰电子扭力测试报告

Bolt Torque Test REPORT

No.： 20250606

产品型号	3H07G010350	客户名称	DIVA
检测工件材料	6063	检测部位	PIN
检测工具	推拉力计	检验方案	/
执行标准	PIN≥8kg;	表面处理	/

扭力测试结果：
Test result:
PIN: 8.3kg;8.8kg;8.5kg;

检验员 Inspector	潘燕	日期 Date	2025.06.06

检验结论：
Result:PIN OK

审核 Review	米乐新	日期 Date	2025.06.06

产品质量证明书
PRODUCT QUALITY CERTIFICATE

收货单位（Buyers）：苏州市尧峰电子有限公司　　编号：20250103002

名称 (Description)	零件号 (Part No)			牌号 (Brand No.)		状态 (State)		实发数量 (Actyai Qutatity)	
铝合金型材 (Aluminum Profile)	铝型材			6063		T5		见发货单	
化学成分 (Chemistry Ingredients)	硅 (Si)	铁 (Fe)	铜 (Cu)	锰 (Mn)	镁 (Mg)	铬 (Cr)	锌 (Zn)	钛 (Ti)	铝 (Al)
标准值% (Standered Value)	0.2-0.6	≤0.35	≤0.1	≤0.1	0.45-0.9	≤0.1	≤0.1	≤0.1	余量 Remain
实测值% (Actual Value)	0.395	0.121	0.0001	0.0046	0.541	0.0028	0.0044	0.0106	余量
力学性能 (Mechanics Performance)	抗拉强度σb（Mpa） (Tensile Stren≤th)		规定非比例延伸强度RP0.2 (Regulata Un-Ratio Pulling Stress)			伸长率δ% (Pulling Ratio)	维氏硬度 HW	氧化膜厚度μm (Oxidizd Memdrance Thickness)	
标准值 (Standered Value)	≥160Mpa		≥110Mpa			≥8	≥8	10	
实测值 (Actual Value)	189		152			9	10	/	
检验项目 (Inspection Item)	封孔质量m≤/dm (Hole Sealing Quality)		尺寸及偏差mm (Measuremet And Tollerance)			外观质量 (Apperane)		颜色 色差 (Colour And Chomatism)	
标准值% (Standered Value)	≤30		按图纸要求			GB/T6892-2015		GB/T14952.3	
实测值% (Actual Value)	/		合格			合格			
执行标准 (Carry Out Standered)	GB/T3190-2008 GB/T6892-2015		以上产品质量经检验合格 准予出厂						

日期：2025.01.03

AP_GP BOM Report

Qisda P/N	3D.1DG04.001
Qisda Item description	#HSINK AL 35*20*15 EW2430
Maker	Yaofeng electric
Maker P/N	3D.1DG04.001
Create date	2023/08/25

Component type	Description	Supplier	Subpart type	Subpart Description	Subpart Supplier	Sample Description	Remark	Report No.	Test Date	Cd	Pb	Hg	Cr6+	PBBs/PBDEs	Br	Cl	Br+Cl	DIBP	DEHP	BBP	DBP	F	I	Exemptions
Metal part	AL6063	尧峰电子	Metal part - Al alloy	AL6063	尧峰电子	银色金属	江阴建邦铝业是尧峰电子的厂商	A2220043734101001E	2022/02/12	N.D	N.D	N.D	N.D	N.D				N.D	N.D	N.D	N.D			
Metal part	碳钢线材1018A(SWCH22A)	尧峰电子	Metal part - Steel alloy	碳钢线材1018A(SWCH22A)	强新合金	灰色金属	swch22a 突固新材料为强新厂商，强新为尧峰电子的厂商	CANEC2211079201	2022/06/01	N.D	N.D	N.D	N.D	N.D				N.D	N.D	N.D	N.D			
Plating	电镀锡	尧峰电子	Plating	电镀锡	尧峰电子	银色金属	大盛金属是尧峰电子的厂商	A2220088704101003C	2022/03/14	N.D	37	N.D	N.D	N.D				N.D	N.D	N.D	N.D			
Summary data										N.D	37	N.D	N.D	N.D				N.D	N.D	N.D	N.D			

检测报告
Test Report

报告编号 A2250312242101001E
Report No. A2250312242101001E

报告抬头公司名称 苏州隆美尔铝业有限公司
Company Name shown on Report SUZHOULONGMEIER ALUMINUMINDUSTRY CO.LTD
地 址 江苏省苏州市相城区北桥镇北桥街道聚峰路40号
Address NO. 40 JUFENG LOAD, SUZHOU CITY, 215000, CHINA

以下测试之样品及样品信息由申请者提供并确认
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	铝型材
Sample Name	aluminium profile
材料名称	6063-t5
Material	6063-t5
样品接收日期	2025.05.12
Sample Received Date	May 12, 2025
样品检测日期	2025.05.12-2025.05.14
Testing Period	May 12, 2025 to May 14, 2025

检测要求 根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯(DBP，BBP，DEHP，DIBP)进行测试。
Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).

批 准
Approved By 宋岩
技术经理 Technical Manager

日 期
Date 2025.05.14

苏州市华测检测技术有限公司
Centre Testing International(Suzhou) Co.,Ltd
No. R399931759
江苏省苏州市相城区澄阳路3286号
No.3286Chengyang Road, Xiangcheng District, Suzhou,Jiangsu

检测报告
Test Report

****

结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 Submitted Sample	欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	符合 PASS

****

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

检测报告
Test Report

检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS

检测报告
Test Report

报告编号 A2250312242101001E
Report No. A2250312242101001E

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 μg/cm² (LOQ)	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	25 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	25 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	25 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	25 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	25 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	25 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	25 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	25 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	25 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	25 mg/kg	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	25 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	25 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	25 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	25 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	25 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	25 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	25 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	25 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	25 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	25 mg/kg	

检测报告
Test Report

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	001	银色金属 Silvery metal

备注: **对于检测铅，镉，汞之样品已消解完全。**

-N.D. = 未检出（小于方法检出限或定量限）

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

-LOQ = 定量限, 六价铬的定量限为0.10 μg/cm²

-▼六价铬浓度小于0.10 μg/cm²，样品未检出六价铬。由于未获知样品的存储条件和生产日期，样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²

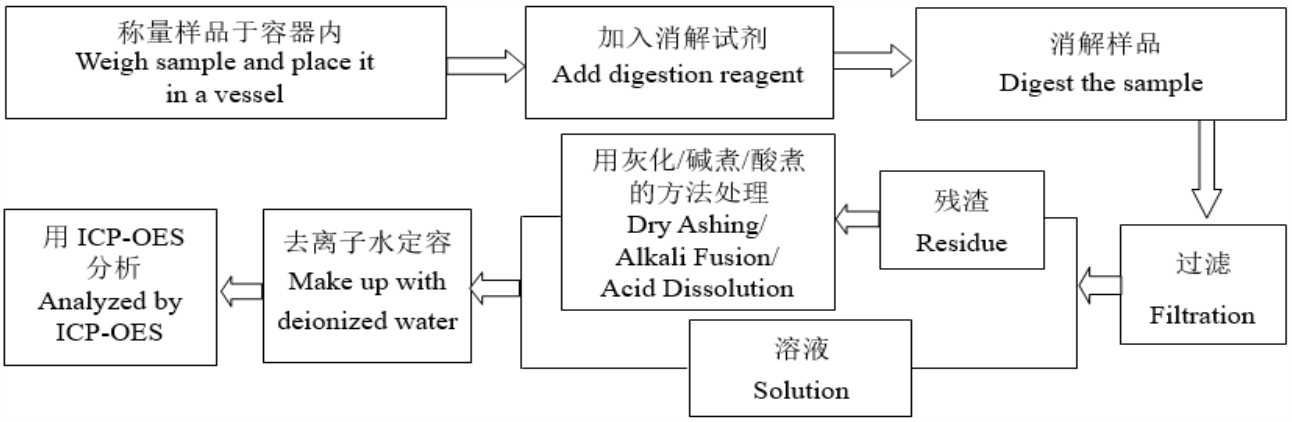
-▼ The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

检测报告
Test Report

检测流程 Test Process

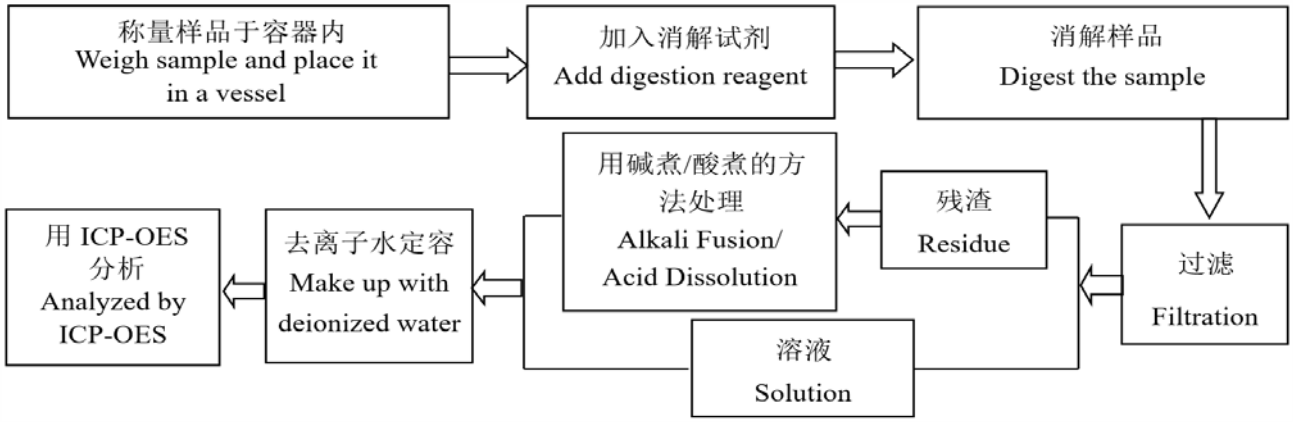
1. 铅(Pb)， 镉(Cd)

Lead (Pb), Cadmium (Cd)



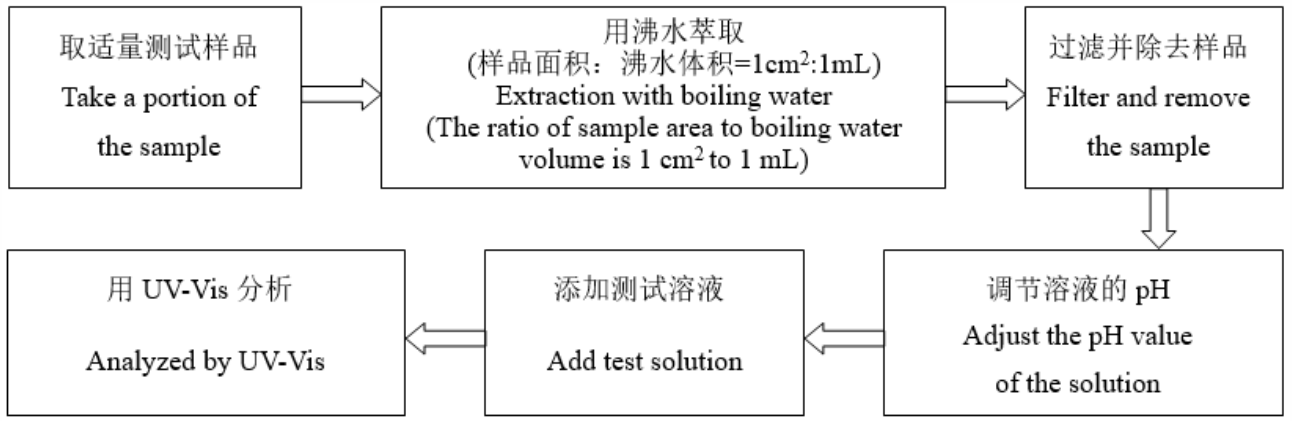
2. 汞(Hg)

Mercury (Hg)



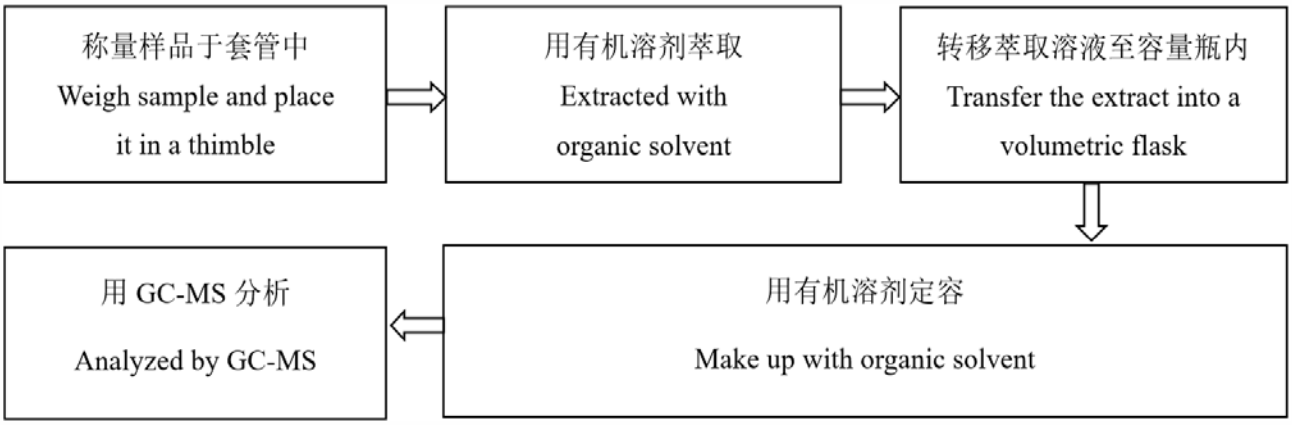
3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



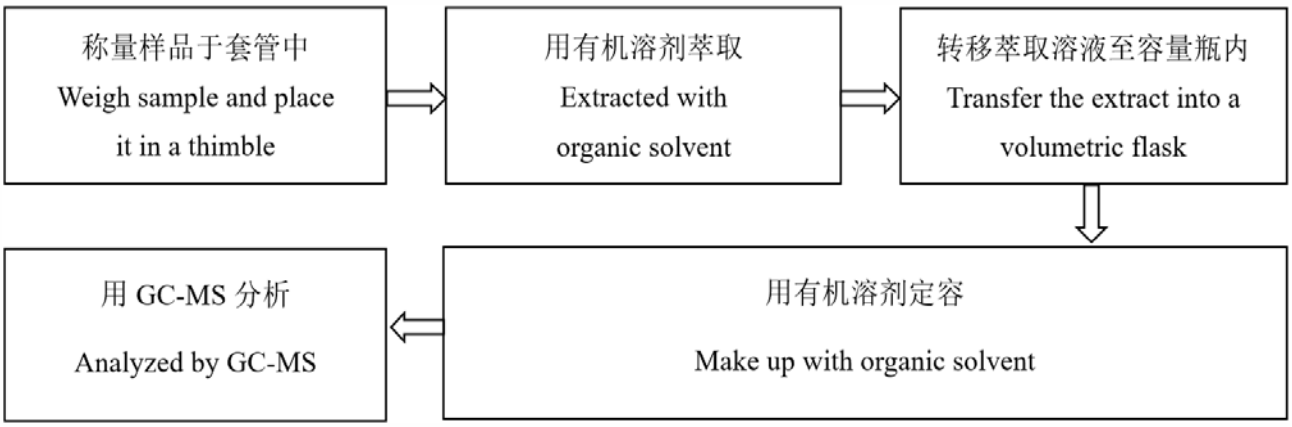
4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



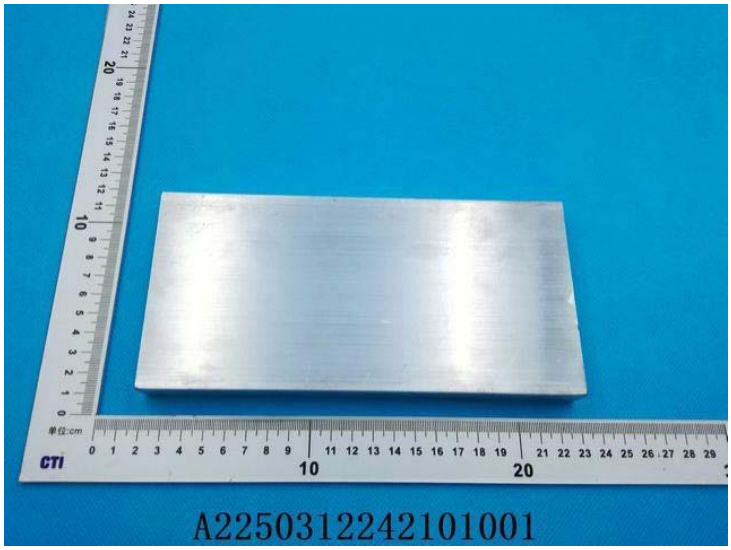
5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



检测报告
Test Report

样品图片
Photo(s) of the sample(s)



声明Statement：

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效；
   This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供，申请者应对其真实性负责，CTI未核实其真实性；
   The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn’t verified;
3. 本报告检测结果仅对受测样品负责；
   The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明，报告参照ILAC-G8:09/2019 / CNAS-GL015:2022使用简单接受(w=0)二元判定规则进行符合性判定;
   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 / CNAS-GL015:2022;
5. 未经CTI书面同意，不得部分复制本报告；
   Without written approval of CTI, this report can’t be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异，以中文为准。
   In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

报告结束

*** End of report ***

检测报告
(SVHC)

客户名称： 广东兴发精密制造有限公司

客户地址： 广东佛山三水工业园区 D 区 12 号厂房一（住所申报）

样品名称： 铝合金型材

型号： 6063-T5

以上样品及信息由客户提供。

SGS 工作编号： GZP24-020725

样品接收时间： 2024 年 06 月 25 日

检测周期： 2024 年 06 月 25 日 ~ 2024 年 07 月 01 日

检测要求： 根据客户要求，
(i) 基于欧洲化学品管理署截止 2024 年 6 月 27 日公布的供授权审议的高关注物质候选清单(根据欧盟第 1907/2006 号 REACH 法规)，对 241 项高关注物质(SVHC)进行筛分检测。
(ii) 对 2 项潜在的待定高关注物质(SVHC)进行筛分检测。
(iii)基于欧洲化学品管理署公布的高关注物质意向清单(根据欧盟第 1907/2006 号 REACH 法规)，对 6 种潜在的高关注物质(SVHC)进行筛分检测。

检测方法： 见后续页。

检测结果： 见后续页。

总结：

根据具体的范围和筛分检测，所提交样品中 SVHC 检测结果≤ 0.1% (w/w)。	通过

通标标准技术服务有限公司广州分公司
授权签名

Dongyu Xie 谢冬育
批准签署人

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备注：

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件，利用现有的分析技术完成的。
   http://echa.europa.eu/web/guest/candidate-list-table
   这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。
2. REACH 法规义务：
   2.1 关于物品：
   告知：
   欧盟第 1907/2006（EC）号法规第 33 条规定，含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1%的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息，以使物品使用安全，这些信息至少包括含有的候选清单中物质的名称。

   通报：
   根据欧盟第 1907/2006（EC）号法规，如果满足以下两个条件，如果物质符合第 57 条中的标准并根据第 59 条第一款被确定，物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报：(a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商；(b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

   自 2021 年 1 月 5 日起，在欧盟市场上供应候选清单上浓度高于 0.1%重量比（w/w）的高关注物质（SVHC）的物品的公司必须遵守废物框架指令 2008/98/EC 要求，并向 ECHA 提交有关这些物品的 SCIP 通知。

   2.2 关于材料：
   报告中的检测结果是基于检测样品。如样品是均一材质，当其构成成品时，此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测，这些材质也可能来自不同的物品。

   如果样品是一种物质或混合物，并且直接出口到欧盟，客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

   2.3 关于物质和配制品：
   如果样品中高关注物质的浓度超过 0.1% (w/w)和/或欧盟第 1272/2008 号 CLP 法规及其修订中设定的特殊浓度限值，建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表(SDS)以符合供应链通信的义务，如
   -根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。
   -根据欧盟第 1272/2008 号 CLP 法规被列为有害混合物，而当中物质的浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的浓度限值;或
   -根据欧盟第 1272/2008 号 CLP 法规并未列为有害混合物，但包含：
   (a) 对人类健康或环境有害的物质， 而在固体或液体混合物（即非气体混合物）中其浓度≥1%(w/w)或在气体混合物中占体积≥0.2%，或
   (b) PBT 或 vPvB 物质，在固体或液体混合物（即非气体混合物）中个别浓度≥0.1%(w/w)，或
   (c) 授权审议的高关注物质候选清单上的物质（除上述以外的原因）在个别非气体混合物中的浓度≥0.1%(w/w)，或
   (d) 设有欧洲范围内工作场所接触限值的物质。
3. 如果样品中 SVHC 的检测结果超过报告限，建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。

检验检测专用章 Inspection & Testing Services
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检测样品：

检测组：

检测结果 ID	样品描述	检测部件 ID	SGS 样品 ID
001	银色金属	A1	CAN24-0137025-0001.C001

检测方法：

参考 SGS 内部方法，采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法进行分析。

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(SVHC)

检测结果：（候选清单中的高关注物质）

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
-	所有检测的候选清单中的 SVHC	-	ND	-

检测结果：（潜在的 SVHC）

批次	物质名称	CAS No.	001 浓度 (%)	RL (%)
/	所有检测的潜在的 SVHC	-	ND	-

备注：

(1) 上表仅显示检出的 SVHC，低于 RL 的 SVHC 没有列出。所有检测的 SVHC 请参见附录。

(2) RL = 报告限 (当检测结果 ≥ RL 时显示数据。RL 不同于法规限值。)

ND = 未检测到 (<RL)，ND 针对 SVHC 物质上。

(3) * 结果是由选定的元素结果基于最坏的情况计算，并根据物质用途和材料特性评估得出；

** 检测结果是由选定的标记物的结果并基于最坏的情况计算得出。

硼化合物的结果由 ICP-OES 检测的水提取硼元素结果换算得出。

四氧化二硼钡的结果由 ICP-OES 检测的水提取硼和钡元素结果换算得出。

RL = 0.005% 是针对元素 (例如钴、砷 、铅 、铬 (VI) 、铝、锆、硼、锶、锌、锑、钛、钡、镉)，除 了钼的 RL= 0.0005%，硼的 RL= 0.0025%(仅对四氟硼酸铅)，氟的 RL=0.050%。

(4) §只有当物质包含米氏酮(CAS No.: 90-94-8)或米氏碱(CAS No.: 101-61-1)的浓度≥ 0.1%(w / w)的情况下，该物质才被提议定为 SVHC。

(5) / = 潜在的 SVHC

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。

除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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附录
所有检测的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.050
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.050
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.050
I	4	蒽	120-12-7	0.050
I	5	邻苯二甲酸丁苄酯(BBP)	85-68-7	0.050
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.050
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.050
I	8	二氯化钴*	7646-79-9	0.005
I	9	五氧化二砷*	1303-28-2	0.005
I	10	三氧化二砷*	1327-53-3	0.005
I	11	邻苯二甲酸二丁酯(DBP)	84-74-2	0.050
I	12	六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	0.050
I	13	砷酸氢铅*	7784-40-9	0.005
I	14	重铬酸钠*	10588-01-9 /7789-12-0	0.005
I	15	三乙基砷酸酯*	15606-95-8	0.005
II	16	2,4-二硝基甲苯	121-14-2	0.050
II	17	丙烯酰胺	79-06-1	0.050
II	18	蒽油**	90640-80-5	0.050
II	19	蒽油，蒽糊**	90640-81-6	0.050
II	20	蒽油，蒽糊，蒽馏分**	91995-15-2	0.050
II	21	蒽油，蒽糊，轻油**	91995-17-4	0.050
II	22	蒽油，含蒽量少**	90640-82-7	0.050
II	23	邻苯二甲酸二异丁酯	84-69-5	0.050
II	24	钼铬红(C.I.颜料红 104)*	12656-85-8	0.005
II	25	铬酸铅*	7758-97-6	0.005
II	26	铅铬黄(C.I.颜料黄 34)*	1344-37-2	0.005
II	27	沥青，煤焦油，高温**	65996-93-2	0.050
II	28	磷酸三(2-氯乙基)酯	115-96-8	0.050
III	29	重铬酸铵*	7789-09-5	0.005
III	30	硼酸*	10043-35-3 /11113-50-1	0.005
III	31	无水四硼酸钠*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	铬酸钾*	7789-00-6	0.005
III	33	重铬酸钾*	7778-50-9	0.005
III	34	铬酸钠*	7775-11-3	0.005

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III	35	水合硼酸钠*	12267-73-1	0.005
III	36	三氯乙烯	79-01-6	0.050
IV	37	乙二醇乙醚	110-80-5	0.050
IV	38	乙二醇单甲醚	109-86-4	0.050
IV	39	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	13530-68-2 /7738-94-5	0.005
IV	40	三氧化铬*	1333-82-0	0.005
IV	41	碳酸钴*	513-79-1	0.005
IV	42	乙酸钴*	71-48-7	0.005
IV	43	硝酸钴*	10141-05-6	0.005
IV	44	硫酸钴*	10124-43-3	0.005
V	45	1,2,3-三氯丙烷	96-18-4	0.050
V	46	1,2-苯二酸-二(C6-8 支链)烷基酯(富 C7)	71888-89-6	0.050
V	47	1,2-苯二酸-二(C7-11 支链与直链)烷基(醇)酯	68515-42-4	0.050
V	48	1-甲基-2-吡咯烷酮	872-50-4	0.050
V	49	乙二醇乙醚醋酸酯	111-15-9	0.050
V	50	联氨	302-01-2 /7803-57-8	0.050
V	51	铬酸锶*	7789-06-2	0.005
VI	52	1,2-二氯乙烷	107-06-2	0.050
VI	53	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.050
VI	54	2-甲氧基苯胺	90-04-0	0.050
VI	55	对特辛基苯酚	140-66-9	0.050
VI	56	硅酸铝耐火陶瓷纤维*	-	0.005
VI	57	砷酸*	7778-39-4	0.005
VI	58	二乙二醇二甲醚	111-96-6	0.050
VI	59	邻苯二甲酸二甲氧基乙酯	117-82-8	0.050
VI	60	砷酸钙*	7778-44-1	0.005
VI	61	铬酸铬*	24613-89-6	0.005
VI	62	甲醛与苯胺的低聚物	25214-70-4	0.050
VI	63	叠氮化铅*	13424-46-9	0.005
VI	64	苦味酸铅*	6477-64-1	0.005
VI	65	史蒂芬酸铅*	15245-44-0	0.005
VI	66	N,N-二甲基乙酰胺	127-19-5	0.050
VI	67	氢氧化铬酸锌*	49663-84-5	0.005
VI	68	酚酞	77-09-8	0.050
VI	69	氢氧化铬酸锌钾*	11103-86-9	0.005
VI	70	砷酸铅*	3687-31-8	0.005
VI	71	氧化锆硅酸铝耐火陶瓷纤维*	-	0.005
VII	72	C.I.碱性蓝 26§	2580-56-5	0.050
VII	73	C.I.碱性紫 3§	548-62-9	0.050
VII	74	三乙二醇二甲醚(TEGDME)	112-49-2	0.050
VII	75	乙二醇二甲醚(EGDME)	110-71-4	0.050

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VII	76	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	0.050
VII	77	4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇§	561-41-1	0.050
VII	78	三氧化二硼*	1303-86-2	0.005
VII	79	甲酰胺	75-12-7	0.050
VII	80	甲基磺酸铅*	17570-76-2	0.005
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.050
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H, 3H,5H)-三酮(TGIC)	2451-62-9	0.050
VII	83	C.I.溶剂蓝 4§	6786-83-0	0.050
VII	84	1,3,5-三-[(2S 和 2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β-TGIC)	59653-74-6	0.050
VIII	85	二盐基邻苯二甲酸铅*	69011-06-9	0.005
VIII	86	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.050
VIII	87	乙二醇二乙醚	629-14-1	0.050
VIII	88	1-溴丙烷	106-94-5	0.050
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.050
VIII	90	对特辛基苯酚乙氧基醚	-	0.050
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.050
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.050
VIII	93	4-氨基偶氮苯	60-09-3	0.050
VIII	94	2,4-二氨基甲苯	95-80-7	0.050
VIII	95	4-壬基(支链与直链)苯酚	84852-15-3	0.050
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.050
VIII	97	碱式乙酸铅*	51404-69-4	0.005
VIII	98	4-氨基联苯	92-67-1	0.050
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.050
VIII	100	环己烷-1,2-二羧酸酐, 顺式-环己烷-1,2-二羧酸酐, 反式-环己烷-1,2-二羧酸酐	13149-00-3 /14166-21-3 /85-42-7	0.050
VIII	101	偶氮二甲酰胺	123-77-3	0.050
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.050
VIII	103	硫酸二乙酯	64-67-5	0.050
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.050
VIII	105	硫酸二甲酯	77-78-1	0.050
VIII	106	地乐酚	88-85-7	0.050
VIII	107	双(十八酸基)二氧代三铅*	12578-12-0	0.005
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.005
VIII	109	呋喃	110-00-9	0.050
VIII	110	全氟十一烷酸	2058-94-8	0.050
VIII	111	全氟十四烷酸	376-06-7	0.050
VIII	112	甲基六氢邻苯二甲酸酐,4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐,3-甲基六氢邻苯二甲酸酐	-	0.050

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VIII	113	四氟硼酸铅*	13814-96-5	0.005
VIII	114	氨基氰铅盐*	20837-86-9	0.005
VIII	115	硝酸铅*	10099-74-8	0.005
VIII	116	一氧化铅*	1317-36-8	0.005
VIII	117	碱式硫酸铅*	12036-76-9	0.005
VIII	118	四氧化三铅*	1314-41-6	0.005
VIII	119	钛酸铅*	12060-00-3	0.005
VIII	120	钛酸铅锆*	12626-81-2	0.005
VIII	121	甲氧基乙酸	625-45-6	0.050
VIII	122	1,2-环氧丙烷	75-56-9	0.050
VIII	123	N,N-二甲基甲酰胺	68-12-2	0.050
VIII	124	N-甲基乙酰胺	79-16-3	0.050
VIII	125	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.050
VIII	126	邻-氨基偶氮甲苯	97-56-3	0.050
VIII	127	2-氨基甲苯	95-53-4	0.050
VIII	128	全氟十三烷酸	72629-94-8	0.050
VIII	129	硫酸四氧化五铅*	12065-90-6	0.005
VIII	130	铅锑黄*	8012-00-8	0.005
VIII	131	掺杂铅的硅酸钡*	68784-75-8	0.005
VIII	132	硅酸铅*	11120-22-2	0.005
VIII	133	二碱式亚硫酸铅*	62229-08-7	0.005
VIII	134	四乙基铅*	78-00-2	0.005
VIII	135	硫酸三氧化四铅*	12202-17-4	0.005
VIII	136	全氟十二烷酸	307-55-1	0.050
VIII	137	碱式碳酸铅*	1319-46-6	0.005
VIII	138	二碱式亚磷酸铅*	12141-20-7	0.005
IX	139	4-壬基(支链与直链)苯酚乙氧基醚	127087-87-0 /26027-38-3 /37205-87-1 /68412-54-4 /9016-45-9	0.050
IX	140	全氟辛酸铵(APFO)**	3825-26-1	0.050
IX	141	氧化镉*	1306-19-0	0.005
IX	142	镉	7440-43-9	0.005
IX	143	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.050
IX	144	全氟辛酸(PFOA)	335-67-1	0.050
X	145	硫化镉*	1306-23-6	0.005
X	146	邻苯二甲酸二正己酯	84-75-3	0.050
X	147	C.I.直接红 28	573-58-0	0.050
X	148	C.I.直接黑 38	1937-37-7	0.050
X	149	2-巯基咪唑啉	96-45-7	0.050
X	150	乙酸铅*	301-04-2	0.005
X	151	磷酸三二甲苯酯	25155-23-1	0.050

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XI	152	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.050
XI	153	氯化镉*	10108-64-2	0.005
XI	154	水合过硼酸钠*	-	0.005
XI	155	过硼酸钠*	7632-04-4	0.005
XII	156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1	0.050
XII	157	2-苯并三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7	0.050
XII	158	二正辛基-双(2-乙基己基巯基乙酸酯)锡 (DOTE)	15571-58-1	0.050
XII	159	氟化镉*	7790-79-6	0.005
XII	160	硫酸镉*	10124-36-4 /31119-53-6	0.005
XII	161	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.050
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	68515-51-5 /68648-93-1	0.050
XIII	163	5-二级丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1]，5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.050
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.050
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基）苯酚 (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)	36437-37-3	0.050
XIV	167	硝基苯	98-95-3	0.050
XIV	168	全氟壬酸及其钠盐和铵盐	375-95-1	0.050
XV	169	苯并(a)芘	50-32-8	0.050
XVI	170	4,4'-异亚丙基联苯酚(双酚 A)	80-05-7	0.050
XVI	171	4-庚基(支链与直链)苯酚	-	0.050
XVI	172	全氟癸酸(PFDA)及其钠盐和铵盐	3108-42-7 /335-76-2 /3830-45-3	0.050
XVI	173	对叔戊基苯酚	80-46-6	0.050
XVII	174	全氟己烷-1-磺酸及其盐	-	0.050
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.050
XVIII	176	苯并蒽(BaA)	56-55-3	0.050
XVIII	177	硝酸镉*	10325-94-7	0.005
XVIII	178	碳酸镉*	513-78-0	0.005
XVIII	179	氢氧化镉*	21041-95-2	0.005
XVIII	180	䓛(CHR)	218-01-9	0.050

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(SVHC)

批次	序号	物质名称	CAS No.	RL (%)
XVIII	181	1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链 4-庚基苯酚的反应产物(RP-HP)[含有支链和直链 4-庚基苯酚重量比≥0.1%]	-	0.050
XIX	182	1,2,4-苯三酸酐(偏苯三酸酐)(TMA)	552-30-7	0.050
XIX	183	苯并(g,h,i)苝(二萘嵌苯)(BPE)	191-24-2	0.050
XIX	184	十甲基环五硅氧烷(D5)	541-02-6	0.050
XIX	185	邻苯二甲酸二环己酯(DCHP)	84-61-7	0.050
XIX	186	氧化硼钠*	12008-41-2	0.005
XIX	187	十二甲基环六硅氧烷(D6)	540-97-6	0.050
XIX	188	乙二胺(EDA)	107-15-3	0.050
XIX	189	铅	7439-92-1	0.005
XIX	190	八甲基环四硅氧烷(D4)	556-67-2	0.050
XIX	191	氢化三联苯	61788-32-7	0.050
XX	192	1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮(3-亚苄基樟脑)	15087-24-8	0.050
XX	193	4,4'-(1,3-二甲基丁基)二苯酚(1,3-DMBBP)	6807-17-6	0.050
XX	194	苯并(k)荧蒽(BkF)	207-08-9	0.050
XX	195	荧蒽(FLT)	206-44-0	0.050
XX	196	菲(PHE)	85-01-8	0.050
XX	197	芘(PYR)	129-00-0	0.050
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包括单体和组合)(HFPO-DA)	-	0.050
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.050
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.050
XXI	201	三(4-壬基苯基，支链和直链)亚磷酸酯(TNPP)(含≥0.1%的支链和直链 4-壬基苯酚)	-	0.050
XXII	202	2-苄基-2-二甲基氨基-4'-吗啉基苯基丁酮	119313-12-1	0.050
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.050
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.050
XXII	205	全氟丁烷磺酸及其盐	-	0.050
XXIII	206	1-乙烯基咪唑	1072-63-5	0.050
XXIII	207	2-甲基咪唑	693-98-1	0.050
XXIII	208	对羟基苯甲酸丁酯	94-26-8	0.050
XXIII	209	双(乙酰丙酮基)二丁基锡**	22673-19-4	0.050
XXIV	210	四乙二醇二甲醚	143-24-8	0.050
XXIV	211	二月桂酸二辛基锡及任何其他二辛基锡双(脂肪酰氧基)衍生物**	-	0.050
XXV	212	1,4-二氧六环	123-91-1	0.050
XXV	213	二溴新戊二醇(BMP); 三溴新戊醇(TBNPA); 2,3-二溴-1-丙醇(2,3-DBPA)	1522-92-5 /3296-90-0 /36483-57-5 /96-13-9	0.050
XXV	214	铃兰醛及其立体异构体	-	0.050

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批次	序号	物质名称	CAS No.	RL (%)
XXV	215	双酚 B	77-40-7	0.050
XXV	216	戊二醛	111-30-8	0.050
XXV	217	中链氯化石蜡(MCCP)	85535-85-9	0.050
XXV	218	原硼酸钠盐*	13840-56-7	0.005
XXV	219	对十二烷基苯酚及其异构体(PDDP)	-	0.050
XXVI	220	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环[2.2.1]庚-2-酮，包括各个异构体和/或其组合(4-MBC)	-	0.050
XXVI	221	2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚) (DBMC)	119-47-1	0.050
XXVI	222	S-(三环[5.2.1.0'2,6]癸-3-烯-8(或 9)-基) O-(异丙基或异丁基或 2-乙基己基) O-(异丙基或异丁基或 2-乙基己基)二硫代磷酸酯	255881-94-8	0.050
XXVI	223	乙烯基-三(2-甲氧基乙氧基)硅烷	1067-53-4	0.050
XXVII	224	N-羟甲基丙烯酰胺	924-42-5	0.050
XXVIII	225	1,2-双(2,4,6-三溴苯氧基)乙烷	37853-59-1	0.050
XXVIII	226	四溴双酚 A	79-94-7	0.050
XXVIII	227	双酚 S	80-09-1	0.050
XXVIII	228	四氧化二硼钡*	13701-59-2	0.005
XXVIII	229	四溴邻苯二甲酸双(2-乙基己基)酯	26040-51-7	0.050
XXVIII	230	对羟基苯甲酸异丁酯	4247-02-3	0.050
XXVIII	231	三聚氰胺	108-78-1	0.050
XXVIII	232	全氟庚酸及其盐类	-	0.050
XXVIII	233	全氟异丙基吗啉和全氟丙基吗啉混合物*	-	0.050
XXIX	234	双(4-氯苯基)砜	80-07-9	0.050
XXIX	235	二苯基(2,4,6-三甲基苯甲酰基)氧化膦	75980-60-8	0.050
XXX	236	2,4,6-三叔丁基苯酚	732-26-3	0.050
XXX	237	2-(2'-羟基-5'-叔辛基苯基)苯并三唑 (UV-329)	3147-75-9	0.050
XXX	238	2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苯基)-1-丁酮 (PI-379)	119344-86-4	0.050
XXX	239	布美三唑 (UV-326)	3896-11-5	0.050
XXX	240	2-苯基丙烯与苯酚的低聚和烷基化反应产物	-	0.050
XXXI	241	过氧化二异丙苯	80-43-3	0.050
/	242	磷酸三苯酯	115-86-6	0.050
/	243	间苯二酚	108-46-3	0.050
/	244	八甲基三硅氧烷	107-51-7	0.050
/	245	甲基三(三甲基硅氧烷基)硅烷	17928-28-8	0.050
/	246	七甲基三硅氧烷	1873-88-7	0.050
/	247	十甲基四硅氧烷	141-62-8	0.050
/	248	十二甲基五硅氧烷	141-63-9	0.050
/	249	六甲基二硅氧烷	107-46-0	0.050

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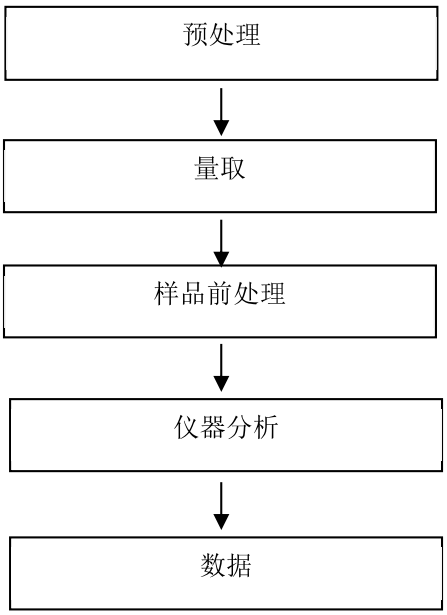
附件

检测流程图



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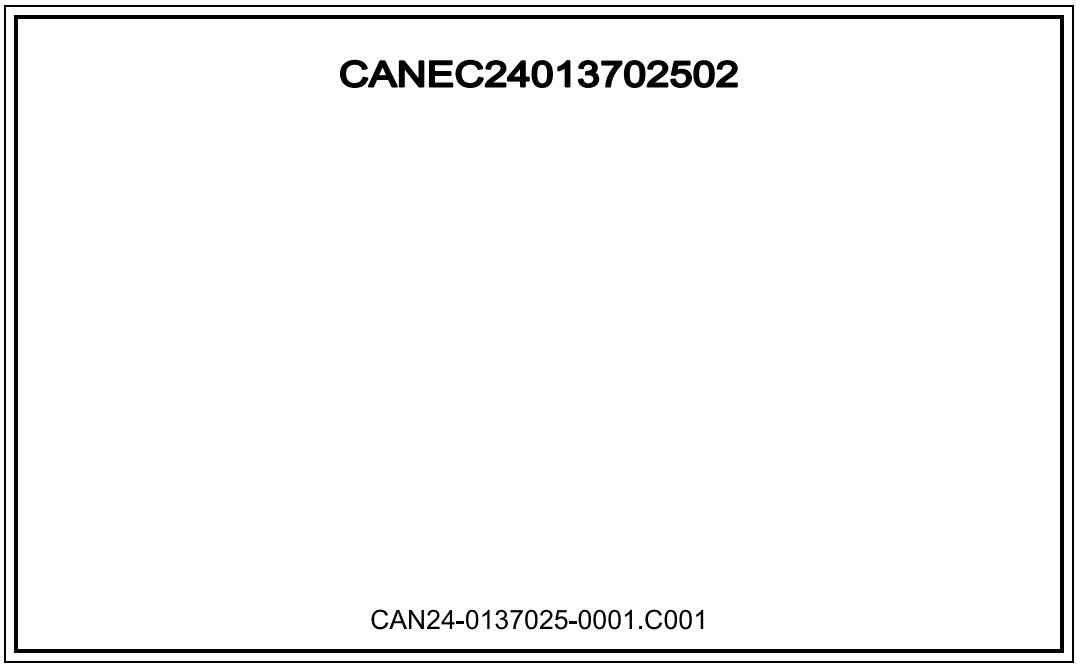

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检 验 证 明 书

INSPECTION CERTIFICATE

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Shanghai Luoguang industry & trade Co.LTD
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Add: 230 Luodong Road Baoshan Disrict,Shanghai City
TEL：86-21-56865999 FAX：86-21-36130610

客户名称 Customer	上海罗维特铆钉制造有限公司			**出货日期 Shipping Date**	2024 年 3 月 18 日		**证明书编号 Certificate No**	20231213
产品名称 Commodity	22A			**执行标准 Specification**	Q/XG 114		**证明书日期 Issue Date**	2024.03.18
炉号 Heal No	**重量 Weight(Kg)**	**线径 Diameter（mm）**	**拉力 Tension（N）**	**实测拉力 Tension（N）**	**延伸率 E．L（%）**	**硬度 （HRB）**		
E23121301	**3401**	**1.85**	**2550-2750**					
E23121301	**1089**	**2.35**	**2550-2750**					

化 学 成 分 CHEMICAL COMPOSITION （%）

	C	**Si**	**Mn**	**S**	**P**	**Alt**					
标准值 Stardard	**0.15-020**	**≤0.10**	**0.60-0.90**	**≤0.035**	**≤0.030**	**≥0.02**					
实测值 Actual	**0.18**	**0.06**	**0.73**	**0.012**	**0.014**	**0.03**					
备注											

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WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HERE IN HAS BEEN MANUFACTURED AND TESTED WITH SASISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION

品管单位主管 周燕军
Manager of Quality Assurance

检测报告

编号：TSNEC25000159302　　**日期：**2025 年 01 月 20 日　　

客户名称：　湖南华菱湘潭钢铁有限公司

客户地址：　湖南省湘潭市岳塘区钢城大道

样品名称：　SCM435

客户参考信息：　SWRCH6A、SWRCH8A、SWRCH10A、SWRCH12A、SWRCH15A、SWRCH18A、SWRCH22A、SWRCH20K、SWRCH25K、SWRCH35K、SWRCH40K、SWRCH45K、SAE1010、SAE1018、SAE1022、C4C、C8C、C10C、C15C、C18C、ML08Al、ML20Cr、ML40Cr、ML20CrMo、ML30CrMo、ML35CrMo、ML42CrMo、ML40CrMo、SCr440、SCM415、SCM420、SCM435、SCM440、20Cr、20CrMnTi、30CrMnTi、40Cr、20CrMo、30CrMo、35CrMo、42CrMo、42CrMo4HH、B7、S2、40CrV、XML35ACr、XML40ACr、ML45Mn2、16MnCr5、16MnCrS5、15Mn3、20Mn2、XG90L、SAE10B21A、SAE10B28A、SAE10B33A、20MnB4、23MnB4、33B2、ML20MnTiB、37MnB5、35VB、50BV30、15B25M、NH8、NHB8、NH10、NHB10、40CrMoV、40CrMoV4-7、ML45、20MnCr5、C45、SAE8620、SAE4140、S35C、20、30MnB4、XGFT8、35CrMoA-ZL、4130、DS06A、HRB500DW

参考编号：　MNS250035GZ_13

以上样品及信息由客户提供。

SGS 工作编号：　TJP25-000281

样品接收时间：　2025 年 01 月 14 日

检测周期：　2025 年 01 月 14 日 ~ 2025 年 01 月 20 日

检测要求：　根据客户要求检测。

检测方法：　见后续页。

检测结果：　见后续页。

通标标准技术服务（天津）有限公司
授权签名

Patrick Kou 寇怀江
批准签署人

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检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	TSN25-0001593-0001.C001	银灰色金属

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检出限
(3) ND = 未检出(< MDL)
(4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法： 参考 IEC 62321-4:2013+AMD1:2017，IEC 62321-5:2013， IEC 62321-7-1:2015 和 IEC 62321-12:2023，采用 ICP-OES/AAS，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services (Tianjin) Co.,Ltd. Chemical Laboratory

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检测项目	限值	单位	MDL	A1
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于0.13 μg/cm²时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND (低于0.10 μg/cm²) 时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP) 不在 CNAS 认可范围内。

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。

除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

检验检测专用章 Inspection & Testing Services

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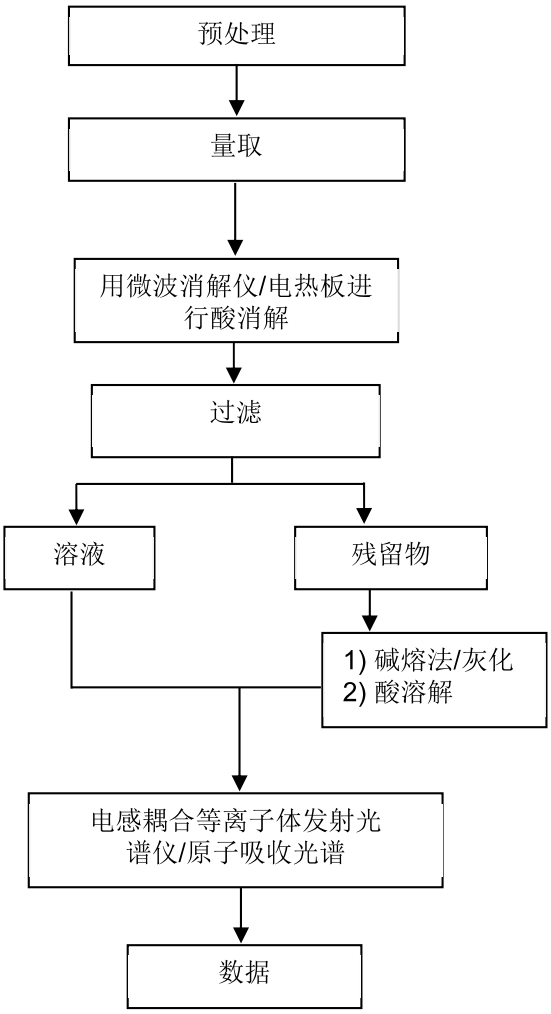
附件

元素检测流程图

样品按照下述流程被完全消解



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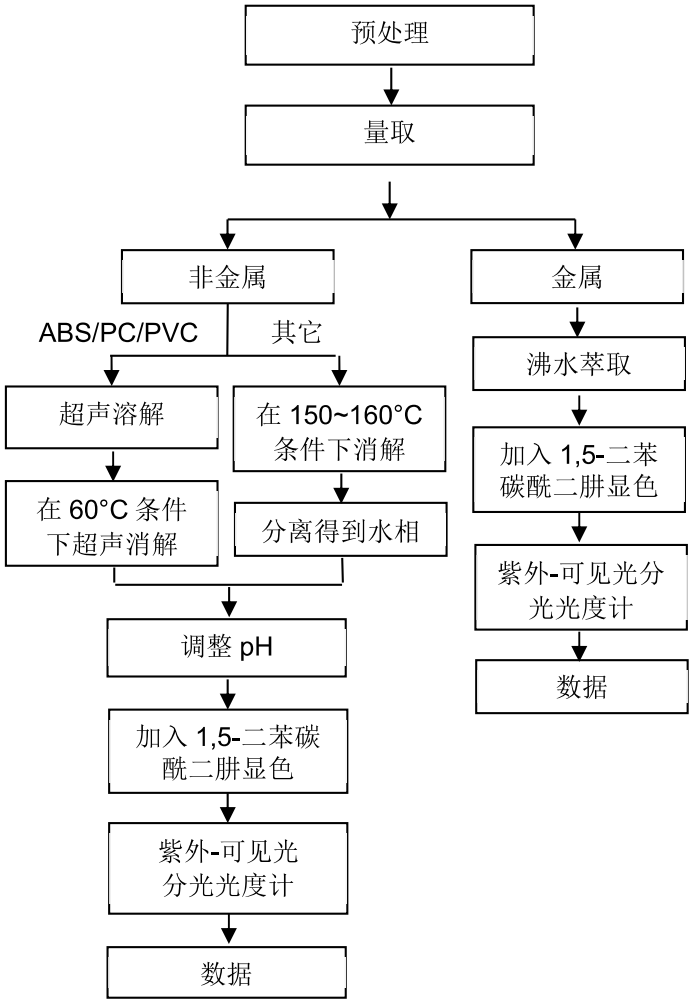
附件

六价铬检测流程图



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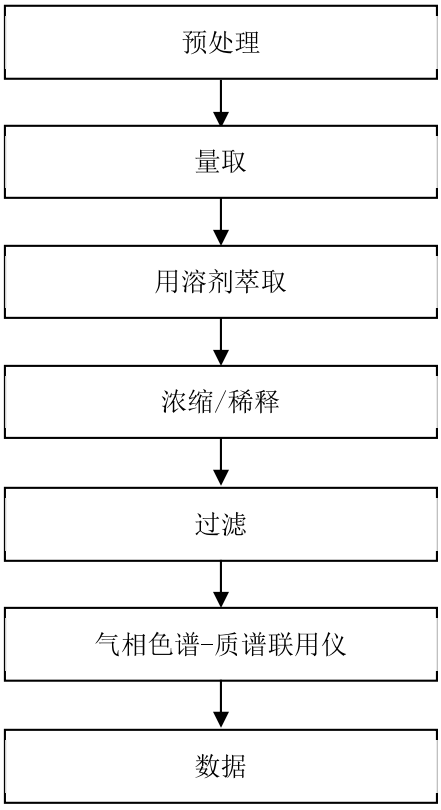
附件

PBB/PBDE/Phthalates 检测流程图



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样品照片：



TSN25-0001593-0001.C001

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化学品安全技术说明书
MSDS

NO-M-001　　M-MIN M-600　　制定 2015-5-18

第 1 部分 –化学品及企业标识

产品名称　：三价铬蓝锌钝化剂
产品代码　：M-401
供货商名称　：昆山锡权五金制品厂
供货商地址　：昆山市开发区昆嘉璐 58 号
电话　：18662114609

第 2 部分 – 危险性概述

GHS 危险性类别　：对健康有害性　急性毒性（吸入烟雾）　类别 2
皮肤腐蚀性/刺激性　类别 1
对眼睛有严重的损伤/刺激性　类别 1
引起呼吸器官过敏　类别 1
生殖细胞突变性　类别 2
引起皮肤过敏　类别 1
至癌性　类别 2
特异性靶器官系统毒性一次接触　类别 2（呼吸器系）
特异性靶器官系统毒性反复接触　类别 2（呼吸器系牙齿全身毒性）

GHS 标签要素
象形图 / 符号：



警示词：危险
危险信息：H314 造成严重的皮肤灼伤和眼损伤
H317 可能会导致皮肤过敏性反应
H318 造成严重眼损伤
H330 吸入致命
H334 吸入可能会导致过敏或哮喘或呼吸困难
H341 怀疑会造成遗传缺陷（说明暴露途径，如果明确被证明没有其他暴露途径造成危险）
H351 怀疑会致癌
H371 可能会对器官造成损害（或说明所有已知的被损害的器官）（说明暴露途径，如果明确被证明没有其他暴露途径造成危险）
H373 通过延长或重复暴露可能会对器官造成损害（或说明所有已知的被损害的器官）（说明暴露途径，如果明确被证明没有其他暴露途径造成危险）
防范说明：使用前请向购入方索取说明书.

切勿吸入喷雾和蒸气.
操作后用肥皂和水彻底清洗.
戴防护手套/穿防护服/戴防护眼罩/戴防护面具.
穿戴适当的个人防护用品.
在通风不足的情况下，应戴适当的呼吸装置.

人员接触后的主要症状与应急综述：如吞咽，禁止引吐，立即寻找医生救治，并出示容器或标签.
如吸入，立即抬至新鲜空气中，并保持安静，寻找医生救治.
如果呼吸困难，供给氧气，采取半仰卧姿势.
触及皮肤后，立即脱去受污染的衣服，用大量流动水对受污染部位.
进行冲洗，如果刺激发展和持续存在，立即寻找医生救治.
受污染的衣物需用洗涤剂彻底清洗后，再使用.
如果与眼睛接触，立即进行医治.

第 3 部分 – 成分 / 组成信息

单一物质与混合物的区别：混合物

化学品名	浓度（%）	化学特性	主要适用法令	CAS 号
硫酸铬	16% Cr:3.1%	Cr2O12S3	危险化学品管理条例	10101-53-8
硫酸钴	14% Co:2.8%	CoSO4.7H20	危险化学品管理条例	10124-43-3
柠檬酸	8%	HNO3	易制毒化学品管理条例	7697-37-2
水．其他	62%		既存化学物质	非公开

第 4 部分 - 急救措施

吸入：迅速移到有新鲜空气的地方，洗净口和鼻腔.
呼吸异常的情况下，立即接受医治.

皮肤接触：迅速脱下受污染的衣服，鞋子等，接触到的部位用大量的水充分冲洗.
发生皮肤炎症的情况下，立即接受医治.

眼睛接触：马上用大量的水冲洗 15 分钟以上，立即接受医治.
洗眼时，眼睑·眼球的角落也要用水进行冲洗，然后立即进行医治.

食入：迅速用水漱口，尽可能饮入很多水，同时与溶液一起吐出．立即寻求医生救治，并出示容器或标签.

第 5 部分 – 消防措施

灭火剂：水、粉末灭火器、泡沫灭火器、二氧化碳等.

特别的危险性：由于火灾遇强热从而引发热分解，有产生有害性刺激性、腐蚀性气体的可能性.

特别的灭火方法：此产品本身不会燃烧.
迅速将容器移到安全没有火的场所放置.

不能移动的情况下，用水将容器周围冷却.

保护消防人员特殊的防护装备：消防员应穿戴完整的防护服，包括自持式呼吸装置.

第 6 部分 – 泄漏应急处理

作业人员防护措施：作业者需穿戴防护用具，在上风向进行作业.

环境保护措施：大量泄漏的情况下，非相关人员禁止入内.

用砂或惰性吸收剂吸收泄漏液体，并移到安全处．避免流入排水沟和下水道.

少量泄漏的情况下，用抹布等吸收后擦去，漏出去的液体还能补救的，尽可能回收到耐腐蚀的容器中，

然后与含有纯碱、粒碱的水溶液中和，用大量的水冲洗泄露液，禁止冲入下水道.

泄漏化学品的收容 / 清除方法与处置材料：将容器收到专门的废物回收站中进行处理.

第 7 部分 - 操作处置与储存

操作：禁止与氧化性物质、还原性物质、碱性物质、可燃物、有机物接触.

避免与皮肤、衣物等接触.

要佩戴合适的防护用具，在通风良好的场所进行操作.

使用后，立即盖上容器.

不能将容器反转、倒下、受到冲击或者是拖拽等.

储存：避免高温及阳光直射，放置在通风良好的地方，保管温度在 5～35℃.

避免与氧化性物质、还原性物质、碱性物质、可燃物、有机物堆放混放.

使用后的容器，洗净后放置在固定的场所.

第 8 部分 – 接触控制/个人的保护

容许浓度：

	容许浓度 （中国国家职业卫生标准）	容许浓度 （日本产卫学会）
硫酸铬	0.05 mg/m3（Cr）	0.5mg/m3（Cr、Cr(3)）
柠檬酸	—	2ppm(5.2mg/m3)
硫酸钴	0.05 mg/m3（Co）	0.05 mg/m3（Co）

工程控制方法：操作场所附近要安装洗眼、身体洗净设备，固定位置要标识清楚.

为了不使烟雾等污染作业现场的空气，要安装局部排气装置及整体排气装置.

个体防护设备：

呼吸系统防护：耐酸防毒面具.

手防护：防护手套（橡胶材质）.

眼睛防护：防护眼镜.

皮肤和身体防护：防护衣及防护长靴（橡胶材质）.

第 9 部分 – 理化特性

外观与性状	浓蓝紫色液体
气味	无
pH 值	2 以下
熔点/凝固点	无意义
沸点	无意义
闪点	无意义
燃烧上下极限或爆炸极限	无意义
蒸汽压	无意义
蒸气密度	无意义
比重/相对密度	1.342-1.362（25℃）
溶解性	无意义
n-辛醇/水分配系数	无意义
自燃温度	无意义
分解温度	无意义
气味阈值	无意义
蒸发速率	无意义
易燃性	不引燃

第 10 部分 – 稳定性和反应性

稳定性：通常操作的条件下表现稳定．但是，长期保存时又有发生沉淀物的可能.

危险反应：与氧化性物质接触有产生 6 价铬的可能性.

应避免的条件：氧化性物质、还原性物质、碱性物质、可燃物及有机物的接触.

在浓缩的固体中加入碳、硫磺、有机物等可燃物后进行加热或撞击时，可能会起火或爆炸.

不兼容的物质：氧化性物质、还原性物质、碱性物质、可燃物及有机物.

危险的分解产物：加热会分解有害的 NO_X 气体.

第 11 部分 – 毒理学信息

急性毒性：类推值：吸入（烟雾）LC500.477ｍｇ/L.

吸入混合物急性毒性推定值 0.477ｍｇ/L.

硫酸铬：入口 老鼠 ＬD50 3250ｍｇ/ｋｇ.

硫酸钴：入口 老鼠 ＬD50 691ｍｇ/ｋｇ.

皮肤刺激或腐蚀：对皮肤、粘膜有刺激、有伤口的话容易造成溃疡.

眼睛刺激或腐蚀：接触眼睛有刺激，会引起结膜炎.

呼吸或皮肤过敏：持续吸入烟雾的情况，鼻粘膜会充血，变成化脓性鼻炎.

根据部位深浅不同，会引起溃疡，严重的情况会标签胃鼻中隔穿孔.

对于呼吸器官、粘膜受到刺激，会引起类似哮喘的支气管炎.

致癌性 钴化合物 本产品包含的钴化合物，在国际癌研究机关（IARC)中为 2B 分类.

第 12 部分 – 生态学特性

生态毒性：无资料.

持久性和降解性：无.

潜在的生物累积性：浓度高的废液会造成水质污染，对环境有害.

土壤中的迁移性：废液不能排放到地面、下水道路和河流等，会对环境有危害.

第 13 部分 – 废弃处置

依据「危险废物污染防治技术政策」，由管理型的最终处理厂采取填埋处理.

另外根据本产品的使用，会产生部分 6 价铬混入到废弃物中的情况，通常的处理方法是用纯碱，粒碱等的水溶液进行中和处理，生成没有危害的氢氧化铬沉淀，最终委托通过国家许可的废弃物处理厂家处理.

第 14 部分 – 运输信息

联合国 UN 号：3264

联合国运输名称：其他腐蚀性物质（无机物）（液体）（酸性物质）

联合国危险性分类：第 8 类

包装组：Ⅱ

海洋污染物：无

运输有关的特殊防范措施：在运输过程中，确保液体是否从容器中泄露并小心轻放，不允许扔/摔而造成破损.应当小心保护好从货车卸货时滑落.遵循当地政府的所有规定.

第 15 部分 – 法规信息

化学危险物品安全管理条例 (1987 年 2 月 17 日国务院发布)，化学危险物品安全管理条例实施细则(化劳发[1992] 677 号)，工作场所安全使用化学品规定 ([1996]劳部发 423 号)等法规，针对化学危险品的安全使用、生产、储存、运输、装卸等方面均作了相应规定；化学品分类、警示标签和警示性说明安全规范 (GB 20593-2006、GB20594-2006、GB20595-2006、GB20597-2006).

第 16 部分 – 其他信息

我们非常诚意地提供以上信息，但是不具任何保证，不带任何暗示意义.
任何材料的适用性必须由使用者来决定是他们的必要的职责.
所有的材料可能呈现出未知的有害物质（危害），使用起来必须小心谨慎.
尽管在这里我们也提供了一些确定会产生的有害物质（危害），但是我们不能保证只会出现这些有害物质（危害）的存在.

检测报告

编号：SHAEC25010289202　　**日期：**2025 年 05 月 09 日　　

客户名称：　昆山锡权五金制品厂

客户地址：　昆山市开发区昆嘉路 518 号

样品名称：　三价蓝白锌镀层

以上样品及信息由客户提供。

SGS 工作编号：　TIC1020250506144133DDGF

样品接收时间：　2025 年 05 月 06 日

检测周期：　2025 年 05 月 06 日 ~ 2025 年 05 月 09 日

检测要求：　根据客户要求检测。

检测方法：　见后续页。

检测结果：　见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务（上海）有限公司

授权签名

盛雯舒

Sue Sheng 盛雯舒

批准签署人

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检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA25-0102892-0001.C001	银色金属

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检出限
(3) ND = 未检出(< MDL)
(4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法： 参考 IEC 62321-4:2013+AMD1:2017，IEC 62321-5:2013，IEC 62321-7-1:2015，IEC 62321-6:2015 和 IEC 62321-8:2017，采用 ICP-OES/AAS，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	μg/cm²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND

检验检测专用章 Inspection & Testing Services
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检测项目	限值	单位	MDL	A1
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于0.13 μg/cm²时，样品为阳性，即含有六价铬；

b. 当六价铬的浓度为ND (低于0.10 μg/cm²) 时，样品为阴性，即未检测到六价铬；

c. 当六价铬的浓度介于0.10 μg/cm²与0.13 μg/cm²之间时，无法直接判定是否检测到六价铬，因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期，样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。

除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

检验检测专用章 Inspection & Testing Services

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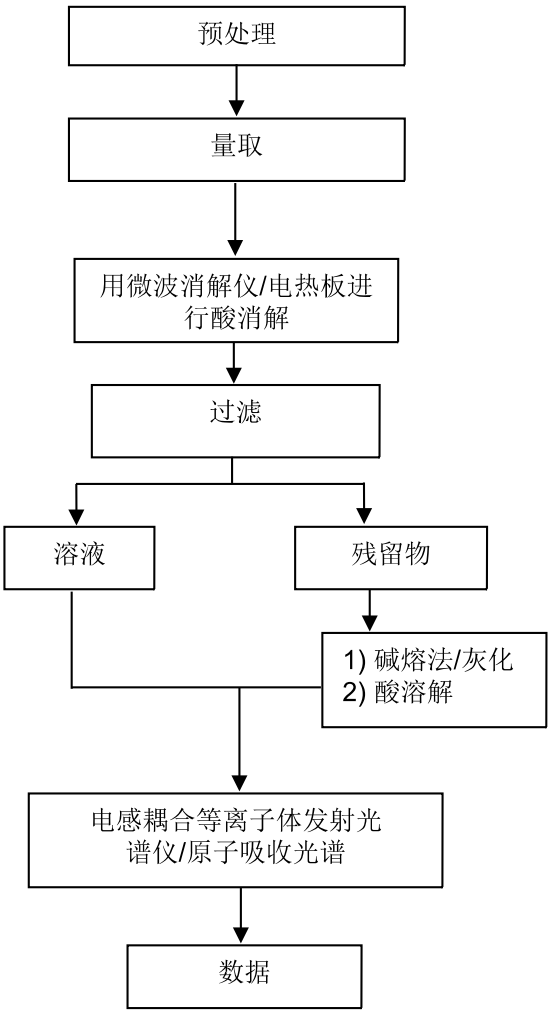
附件

元素检测流程图

样品按照下述流程被完全消解



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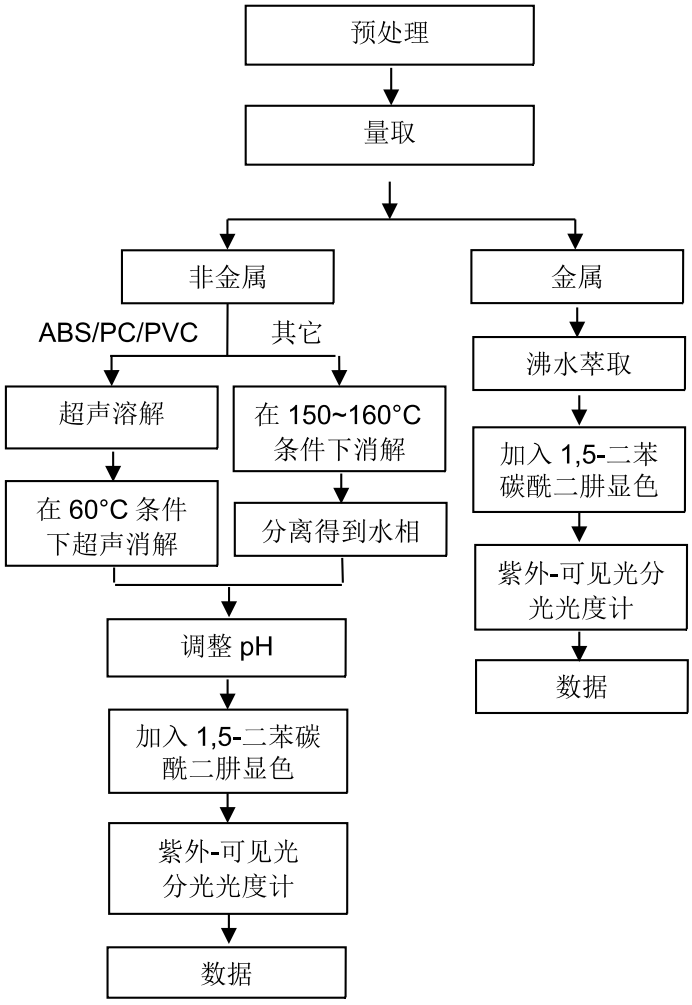
六价铬检测流程图



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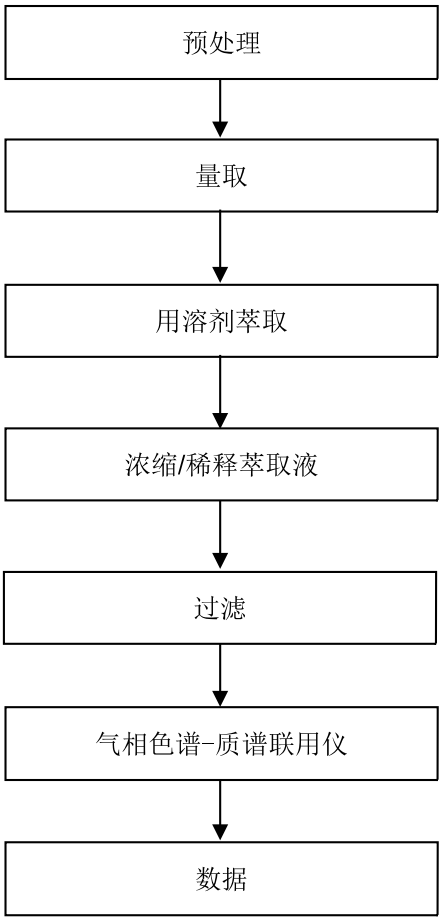
PBB/PBDE 检测流程图



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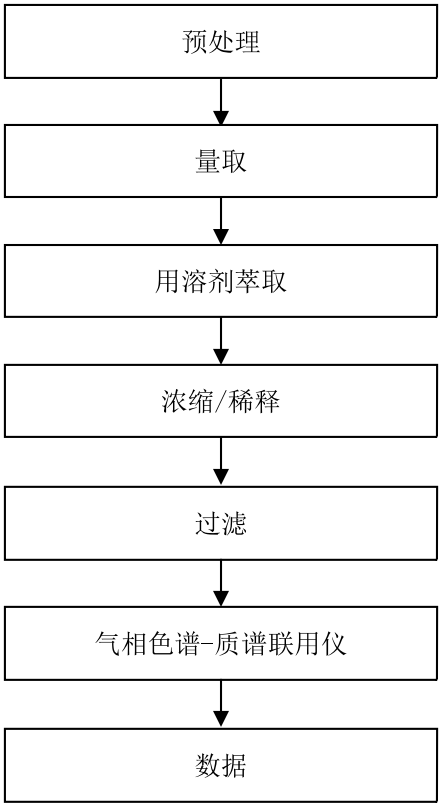
Phthalates 检测流程图



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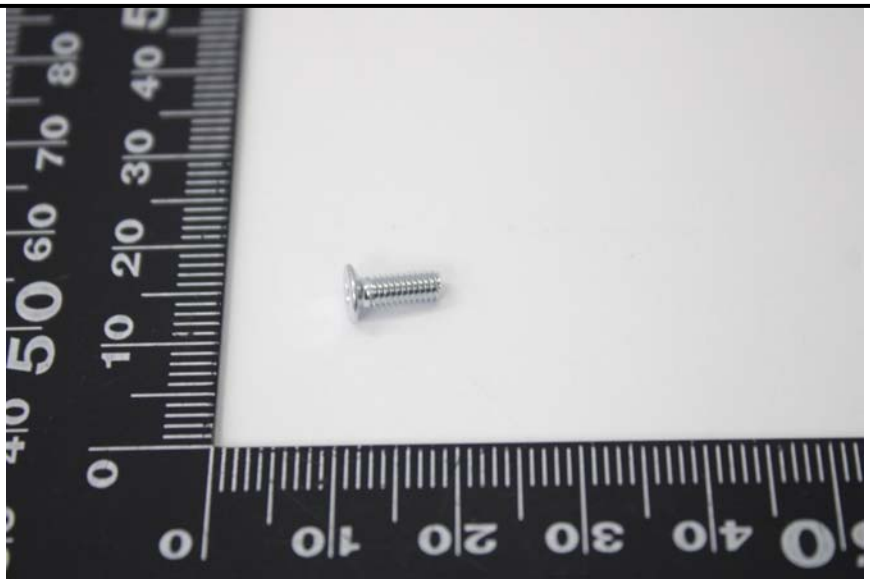

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