

检测报告 编号: CANEC25005532906 日期: 2025年03月25日 第1页,共24页

客户名称: 浙江里阳半导体有限公司

客户地址: 浙江省玉环市芦蒲镇漩门工业区

样品名称: 轴向成品

以上样品及信息由客户提供。

SGS 工作编号: GZP25-002871

样品接收时间: 2025年03月18日

检测周期: 2025年03月18日~2025年03月24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
AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	见检测结果
聚氯乙烯(PVC)	见检测结果
加拿大消费品安全法案(S.C. 2010, c. 21), SOR/2014-79-三(2-氯乙基)磷酸酯 (TCEP)	见检测结果
卤素	见检测结果
红磷	见检测结果
全氟辛酸(PFOA)及其盐和全氟辛烷磺酸(PFOS)及其衍生物	见检测结果
元素分析	见检测结果
欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规	符合

通标标准技术服务有限公司广州分公司 授权签名

陈江梨

Allie Chen 陈江梨 批准签署人





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检测结果:

检测部件外观描述:

127.0/1 Hi- 11 / 1 / 201 Hi-	<u> </u>		
样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	CAN25-0055329-0001.C001	银灰色金属脚
SN2	A2	CAN25-0055329-0001.C002	带芯片的铜色金属
SN3	А3	CAN25-0055329-0001.C003	带灰色印字的黑色塑料
SN4	A4	CAN25-0055329-0001.C004	带白色印刷 & 银色金属脚的黑色本体 (混合)

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

AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

检测方法: 参考 AfPS GS 2019:01 PAK, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A4
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并 (k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
蒀 (CHR)	218-01-9	mg/kg	0.1	ND
二苯并(a,h)蒽 (DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)	191-24-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
4 项多环芳香烃总和[菲 (PHE),芘 (PYR),		ma/ka		ND
蒽 (ANT), 荧蒽 (FLT)]	-	mg/kg	-	ND
萘 (NAP)	91-20-3	mg/kg	0.1	ND
15 项多环芳香烃总和	-	mg/kg	-	ND
材料分类	-	-	-	-

备注:

AfPS(德国产品安全委员会): 认证对多环芳香烃的要求



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	1 类	2 3	类	3	类 ————————————————————————————————————
参数 单位: mg/kg	设计意图为放入口中的材料,或与皮肤长期接触(超过30秒)的材料用于-2009/48/EC定义	不属于第 1 类,设计意图或可预见 ⁶ 与皮肤长期接触(超过 30 秒)或短期重复接触 ⁶ 的材料		个属于第 1 和 2 尖,设计息 图	
	的玩具,或 -供 3 岁以下儿童 ^{a,b} 使用。	a.供儿童 使用的产品	b.其他产品	a.供儿童 使用的产品	b.其他产品
苯并(a)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧蒽 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
薜 (CHR) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)菲(二萘嵌 苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE),芘 (PYR),蒽 (ANT),荥 蒽 (FLT)	<1 (总和)	<5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2	2	< '	10
15 PAH 之和	<1	< 5	< 10	< 20	< 50

注释:

- a 儿童是指法定年龄未满 14 周岁的人。
- b供儿童使用包括儿童的主动接触或被动接触。
- c "短期重复接触"的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。
- d 根据德国产品安全法(ProdSG)(第一章第 2 条第 28 款)的定义,"可预见的使用"是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注:

德国产品安全委员会(AfPS)于 2020 年 4 月 10 日发布了关于多环芳香烃(PAHs)的新文件(AfPS GS 2019:01 PAK),该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

聚氯乙烯(PVC)

检测方法: 参考 ASTM E1252-98 (2021), 采用 FTIR 进行分析。

检测项目	CAS No.	A4
聚氯乙烯 (PVC)	9002-86-2	阴性



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备注:

(1) 阴性=未检测到, 阳性=已检测到。

加拿大消费品安全法案(S.C. 2010, c. 21), SOR/2014-79-三(2-氯乙基)磷酸酯 (TCEP)

检测方法: 参考加拿大卫生部产品安全实验室检测方法 C-38:2012, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A4
三(2-氯乙基)磷酸酯 (TCEP)	115-96-8	mg/kg	200	ND

卤素

检测方法: 参考 EN 14582:2016,采用 IC 进行分析。

检测项目	单位	MDL	A4
氟 (F)	mg/kg	20	ND
氯 (CI)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

红磷

检测方法: SGS 内部方法 (SGS-CCL-TOP-215-01),采用 PY-GC/MS/ ICP-OES / GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A4
红磷	7723-14-0	mg/kg	500	ND

全氟辛酸(PFOA)及其盐和全氟辛烷磺酸(PFOS)及其衍生物

检测方法: 优化的 EN 17681-1:2022, 采用 LC-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A4	
PFOS 及其盐和相关物质					
全氟辛烷磺酸 (PFOS)	1763-23-1	mg/kg	0.010	ND	
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND	
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND	
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND	
2-(N-甲基全氟辛基磺酰胺))乙醇 (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND	
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND	
N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA)	2806-24-8	mg/kg	0.010	ND	
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND	
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND	



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检测项目	CAS No.	单位	MDL	A4
全氟辛烷磺酸 (PFOS)及其衍生物	-	mg/kg	-	ND
PFOA, 及其盐				
全氟辛酸 (PFOA)	335-67-1	mg/kg	0.010	ND

备注:

1. 个=物质是指附表中列出的盐/衍生物。

物质名称	CAS No.
PFOS, 及其盐&衍生物	
全氟辛烷磺酸(PFOS)	1763-23-1
全氟辛基磺酸钾(PFOS-K)	2795-39-3
全氟辛基磺酸锂(PFOS-Li)	29457-72-5
全氟辛基磺酸钠(PFOS-Na)	4021-47-0
全氟辛基磺酸铵(PFOS-NH ₄)	29081-56-9
全氟辛基磺酸二乙醇铵(PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
全氟辛基磺酸四乙基铵(PFOS-N(C ₂ H ₅) ₄)	56773-42-3
全氟辛基磺酸二癸二甲基铵(PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
全氟辛基磺酸四丁基铵(PFOS-N(C ₄ H ₉) ₄)	111873-33-7
全氟辛基磺酰氟(PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁(PFOS-Mg)	91036-71-4
全氟辛烷磺酸哌啶	71463-74-6
全氟辛烷磺酸盐	45298-90-6
全氟辛烷磺酸三乙基铵(PFOS-N(C ₂ H ₅) ₃)	54439-46-2
全氟辛烷磺酸四甲基铵(PFOS-N(CH ₃) ₄)	56773-44-5
N, N,N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-二丁基-N-甲基丁烷-1-胺十七氟辛烷-1-磺酸酯(PFOS-N(C4H9)3(CH3))	124472-68-0
双[4-(1,1-二甲基乙基)苯基]-碘鎓与全氟-1-辛烷磺酸的盐(1:1)	213740-80-8
全氟-1-辛烷磺酸二苯基(2,4,6-三甲基苯基)锍	258341-99-0
全氟-1-辛烷磺酸 1-十六烷基吡啶鎓	334529-63-4



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N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐	773895-92-4
全氟辛烷磺酸四丁基鏻 (PFOS-P (C ₄ H ₉) ₄))	2185049-59-4
全氟辛基磺酸二乙胺 (PFOS-C ₄ H ₁₁ N)	2205029-08-7
全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3
全氟辛基磺酸酐(PFOSAN)	423-92-7
FOSAA, 及其盐	
N-(全氟-1-辛烷磺酰基)甘氨酸(FOSAA)	2806-24-8
全氟辛烷磺酰氨基乙酸盐 (FOSAA(anion))	909405-47-6
全氟辛烷磺酰氨基乙酸钾 (FOSAA-K)	75260-69-4
全氟辛烷磺酰氨基乙酸钠 (FOSAA-Na)	115716-87-5
N-MeFOSAA, 及其盐	
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9
N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 (N-Me-FOSAA(anion))	909405-48-7
N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, 及其盐	
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸(N-EtFOSAA)	2991-50-6
N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 (N-Et-FOSAA-K)	2991-51-7
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 (N-Et-FOSAA(anion))	909405-49-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 (N-Et-FOSAA-NH4)	2991-52-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 (N-Et-FOSAA-Na)	3871-50-9
PFOSA, 及其盐	
全氟辛基磺酰胺(PFOSA)	754-91-6
全氟辛基磺酰胺锂盐(1:1)(PFOSA-Li)	76752-79-9
全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)	76752-78-8
全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)	76752-70-0
全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH ₄)	76752-72-2



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全氟辛基磺酰胺三乙胺 (PFOSA-C ₆ H ₁₅ N)	76752-82-4
PFOA, 及其盐&衍生物	
全氟辛酸(PFOA)	335-67-1
全氟辛酸钠(PFOA-Na)	335-95-5
全氟辛酸钾(PFOA-K)	2395-00-8
全氟辛酸银(PFOA-Ag)	335-93-3
全氟辛酰氟(PFOA-F)	335-66-0
全氟辛酸铵(APFO)	3825-26-1
全氟辛酸锂(PFOA-Li)	17125-58-5
全氟辛酸钴(PFOA-Co)	35965-01-6
全氟辛酸铯(PFOA-Cs)	17125-60-9
全氟辛酸铬(3+) (PFOA-Cr(3+))	68141-02-6
全氟辛酸-哌嗪(2:1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
全氟辛酸盐	45285-51-6
全氟辛酸酐	33496-48-9
全氟辛酸四乙基胺	98241-25-9
全氟辛酸四甲基胺	32609-65-7
全氟辛酸四丙基胺	277749-00-5
全氟辛酸钾水合物 (PFOA-K(H ₂ O) ₂)	98065-31-7
全氟辛酸乙胺 (PFOA-C ₂ H ₇ N)	1376936-03-6
全氟辛酸吡啶 (PFOA-C₅H₅N)	95658-47-2
全氟辛酸苯基哌嗪 (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
全氟辛酸辛基三甲基铵 (PFOA-C ₁₁ H ₂₆ N)	927835-01-6

元素分析

检测方法: 参考 US EPA 3050B:1996, 采用 ICP-OES/AAS 进行分析。



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检测项目	单位	MDL	A1
砷(As)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND
磷(P)	mg/kg	20	ND
锑(Sb)	mg/kg	10	ND

检测方法: 参考 US EPA 3052:1996, 采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A4
砷(As)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND
磷(P)	mg/kg	20	24
锑(Sb)	mg/kg	10	ND

欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规

检测方法: SGS 内部方法-采用 GC-MS 或 GC-MS/MS、GC-NCI-MS,GC-ECD 和 HPLC-DAD-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A2	A3
四溴二苯醚	40088-47-9 和其它	ı	mg/kg	5	ND	ND
五溴二苯醚	32534-81-9 和其它	-	mg/kg	5	ND	ND
六溴二苯醚	36483-60-0 和其它	-	mg/kg	5	ND	ND
七溴二苯醚	68928-80-3 和其它	-	mg/kg	5	ND	ND
十溴二苯醚(decaBDE)	1163-19-5	-	mg/kg	5	ND	ND
多溴二苯醚总和*	•	500	mg/kg	•	ND	ND
PFOS 及其盐和相关物质						
全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	-	mg/kg	0.010	ND	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND	ND
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	-	mg/kg	0.010	ND	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND	ND
全氟辛基磺酰胺 (PFOSA), 及其盐^	754-91-6	-	mg/kg	0.010	ND	ND
N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA), 及其盐^	2806-24-8	-	mg/kg	0.010	ND	ND
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA), 及其盐^	2355-31-9	-	mg/kg	0.010	ND	ND



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检测项目	CAS No.	限值	单位	MDL	A2	A3
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA), 及其盐^	2991-50-6	-	mg/kg	0.010	ND	ND
全氟辛烷磺酸 (PFOS)及其衍生物	-	1000	mg/kg	-	ND	ND
4,4-滴滴涕	50-29-3	禁用	mg/kg	0.05	ND	ND
氯丹	57-74-9	禁用	mg/kg	0.05	ND	ND
六氯环己烷	58-89-9, 319-84-6, 319-85-7, 608-73-1	禁用	mg/kg	0.05	ND	ND
狄氏剂	60-57-1	禁用	mg/kg	0.05	ND	ND
异狄氏剂	72-20-8	禁用	mg/kg	0.05	ND	ND
七氯	76-44-8	禁用	mg/kg	0.05	ND	ND
硫丹	115-29-7, 959-98-8, 33213-65-9	禁用	mg/kg	0.05	ND	ND
六氯苯	118-74-1	10	mg/kg	5	ND	ND
十氯酮	143-50-0	禁用	mg/kg	0.2	ND	ND
艾氏剂	309-00-2	禁用	mg/kg	0.05	ND	ND
五氯苯	608-93-5	禁用	mg/kg	5	ND	ND
多氯联苯 (PCBs)	1336-36-3 和其它	50	mg/kg	5	ND	ND
灭蚁灵	2385-85-5	禁用	mg/kg	0.05	ND	ND
毒杀芬	8001-35-2	禁用	mg/kg	0.2	ND	ND
六溴联苯	36355-01-8	禁用	mg/kg	5	ND	ND
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	75	mg/kg	20	ND	ND
六氯丁二烯	87-68-3	禁用	mg/kg	5	ND	ND
五氯苯酚(PCP)及其盐和酯	87-86-5 和其它	5	mg/kg	0.5	ND	ND
多氯萘(PCNs)	70776-03-3 和其它	禁用	mg/kg	5	ND	ND
C10-13 氯代烃(短链氯化石蜡) (SCCPs)	85535-84-8 和其它	1500	mg/kg	50	ND	ND
全氟辛酸 (PFOA), 及其盐^	335-67-1	0.025	mg/kg	0.010	ND	ND
PFOA 相关物质						
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS), 及其盐^	39108-34-4	1	mg/kg	0.010	ND	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	1	mg/kg	0.200	ND	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	1	mg/kg	0.200	ND	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	1	mg/kg	0.100	ND	ND



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检测项目	CAS No.	限值	单位	MDL	A2	A3
全氟辛基碘烷 (PFOI)	507-63-1	1	mg/kg	0.200	ND	ND
2H, 2H-全氟癸酸 (8:2 FTCA), 及其 盐^	27854-31-5	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	1	mg/kg	0.100	ND	ND
1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)	2043-53-0	1	mg/kg	0.100	ND	ND
1H,1H,2H,2H-全氟癸基三乙氧基硅 烷 (8:2 FTSi(OC₂H₅)₃)	101947-16-4	1	mg/kg	0.100	ND	ND
双[2-(全氟辛基)]乙基磷酸酯 (8:2diPAP), 及其盐^	678-41-1	1	mg/kg	0.010	ND	ND
2H, 2H, 3H, 3H-全氟十一烷酸 (8:3 FTCA), 及其盐^	34598-33-9	1	mg/kg	0.010	ND	ND
全氟辛基乙烯 (PFDE)	21652-58-4	1	mg/kg	0.100	ND	ND
3-全氟庚基丙酸 (7:3 FTCA)	812-70-4	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-全氟癸基三氯硅烷 (8:2 FTSiCl ₃)/ 1H,1H,2H,2H-全氟癸基三甲氧基硅 烷 (8:2 FTSi(OCH ₃) ₃)	78560-44-8 /83048-65-1	1	mg/kg	0.100	ND	ND
2H-全氟-2-癸烯酸 (8:2 FTUCA)	70887-84-2	1	mg/kg	0.010	ND	ND
6:8 全氟次膦酸 (6:8 PFPi)	610800-34-5	1	mg/kg	0.010	ND	ND
8:8 全氟次膦酸 (8:8 PFPi, 及其盐^	40143-79-1	1	mg/kg	0.010	ND	ND
1H,1H,2H,2H-全氟十二烷基乙酸酯 (8:2 FTOAc)	37858-04-1	1	mg/kg	0.100	ND	ND
单[2-(全氟辛基)乙基]磷酸盐 (8:2 monoPAP), 及其盐^	57678-03-2	1	mg/kg	0.100	ND	ND
PFOA 相关化合物总和	-	1	mg/kg	-	ND	ND
三氯杀螨醇	115-32-2	禁用	mg/kg	0.05	ND	ND
全氟己基磺酸 (PFHxS),及其盐^	355-46-4	0.025	mg/kg	0.010	ND	ND
PFHxS 相关化合物						
N-甲基全氟-1-己磺酰胺 (N-Me- PFHxSA)	68259-15-4	1	mg/kg	0.010	ND	ND
全氟己烷磺酰胺 (PFHxSA)	41997-13-1	1	mg/kg	0.010	ND	ND
N-[3-(二甲基氨基)丙基]十三氟己烷 磺酰胺 (N-AP-FHxSA)	50598-28-2	1	mg/kg	0.010	ND	ND
2-[甲基[(十三氟己基)磺酰基]氨基]乙基丙烯酸酯 (N-MeFHSEA)	67584-57-0	1	mg/kg	0.200	ND	ND
2-[甲基[(十三氟己基)磺酰基]氨基] 乙基甲基丙烯酸酯	67584-61-6	1	mg/kg	0.200	ND	ND
2-[乙基[(十三氟己基)磺酰基]氨基] 乙基甲基丙烯酸酯	67906-70-1	1	mg/kg	0.200	ND	ND
十三氟-N- (2-羟基乙基)-N-甲基己烷 磺酰胺 (MeFHxSE)	68555-75-9	1	mg/kg	0.010	ND	ND



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检测项目	CAS No.	限值	单位	MDL	A2	A3
N-乙基-N-[(十三氟己基)磺酰基]甘 氨酸(EtFHxSAA), 及其盐^	68957-32-4	1	mg/kg	0.010	ND	ND
PFHxS 相关化合物总和	-	1	mg/kg	-	ND	ND
甲氧滴滴涕	72-43-5 和其它	0.01	mg/kg	0.01	ND	ND
结论					符合	符合

备注:

- (1) 欧盟POPs法规(EU) 2019/1021, 附录I中的物质禁用在混合物及物品中使用,除非法规有特殊豁免。
- (2) 豁免: 四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚在物质中的法规限值是10 mg/kg ,混合物和物品中四溴、五溴、六溴、七溴和十溴二苯醚的总和不得超过500 mg/kg,该限制应在2021年7月16日之前由委员会审查和评估。
- (3) 豁免: RoHS指令(2011/65/EU)定义的电子电器产品中四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚豁免于POPs法规。
- (4) 豁免: C10-13 氯代烃(短链氯化石蜡)在混合物中的法规限值是1.0% (w/w),在物品中的法规限值为0.15% (w/w)。
- (5) 豁免:全氟辛烷磺酸 (PFOS)及其衍生物在混合物中的法规限值是10mg/kg,在物品中的法规限值是0.1% (w/w),在纺织品和涂层材料中的限值是1μg/m²。
- (6) 豁免: HBCDD 做为无意添加的微量污染物,在物质,混合物,物品或者物品的阻燃剂中不能超出75mg/kg,委员会应在2026年1月1日前审查和评估规定的豁免。
- (7) 多溴二苯醚总和*是指四溴二苯醚、五溴二苯醚、六溴二苯醚、七溴二苯醚和十溴二苯醚的总和。
- (8) ^=物质是指下表PFOS, PFOA和PFOA相关化合物列出的盐/衍生物。

「物质名称	CAS No.
PFOS, 及其盐&衍生物	,
全氟辛烷磺酸(PFOS)	1763-23-1
全氟辛基磺酸钾(PFOS-K)	2795-39-3
全氟辛基磺酸锂(PFOS-Li)	29457-72-5
全氟辛基磺酸钠(PFOS-Na)	4021-47-0
全氟辛基磺酸铵(PFOS-NH4)	29081-56-9
全氟辛基磺酸二乙醇铵(PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
全氟辛基磺酸四乙基铵(PFOS-N(C ₂ H ₅) ₄)	56773-42-3
全氟辛基磺酸二癸二甲基铵(PFOS-N(C10H21)2(CH3)2)	251099-16-8
全氟辛基磺酸四丁基铵(PFOS-N(C ₄ H ₉) ₄)	111873-33-7
全氟辛基磺酰氟(PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁(PFOS-Mg)	91036-71-4
全氟辛烷磺酸哌啶	71463-74-6
全氟辛烷磺酸盐	45298-90-6
全氟辛烷磺酸三乙基铵(PFOS-N(C ₂ H ₅) ₃)	54439-46-2
全氟辛烷磺酸四甲基铵(PFOS-N(CH ₃) ₄)	56773-44-5



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N, N,N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
N,N-二丁基-N-甲基丁烷-1-胺十七氟辛烷-1-磺酸酯(PFOS-	124472-68-0
$N(C_4H_9)_3(CH_3))$	
双[4-(1,1-二甲基乙基)苯基]-碘鎓与全氟-1-辛烷磺酸的盐(1:1)	213740-80-8
全氟-1-辛烷磺酸二苯基(2,4,6-三甲基苯基)铳	258341-99-0
全氟-1-辛烷磺酸1-十六烷基吡啶鎓	334529-63-4
N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐	773895-92-4
全氟辛烷磺酸四丁基鏻 (PFOS-P (C ₄ H ₉) ₄))	2185049-59-4
全氟辛基磺酸二乙胺 (PFOS-C ₄ H ₁₁ N)	2205029-08-7
全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 (PFOS-	1203998-97-3
C ₁₅ H ₃₀ NO ₂)	
全氟辛基磺酸酐(PFOSAN)	423-92-7
FOSAA, 及其盐	
N-(全氟-1-辛烷磺酰基)甘氨酸(FOSAA)	2806-24-8
全氟辛烷磺酰氨基乙酸盐 (FOSAA(anion))	909405-47-6
全氟辛烷磺酰氨基乙酸钾 (FOSAA-K)	75260-69-4
全氟辛烷磺酰氨基乙酸钠 (FOSAA-Na)	115716-87-5
N-MeFOSAA, 及其盐	T
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9
N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 (N-Me-FOSAA(anion))	909405-48-7
N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, 及其盐	
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸(N-EtFOSAA)	2991-50-6
N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 (N-Et-FOSAA-K)	2991-51-7
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 (N-Et-FOSAA(anion))	909405-49-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 (N-Et-FOSAA-NH4)	2991-52-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 (N-Et-FOSAA-Na)	3871-50-9
PFOSA, 及其盐	
全氟辛基磺酰胺(PFOSA)	754-91-6
全氟辛基磺酰胺锂盐(1:1)(PFOSA-Li)	76752-79-9
全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)	76752-78-8
全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)	76752-70-0
全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH ₄)	76752-72-2
全氟辛基磺酰胺三乙胺 (PFOSA-C ₆ H ₁₅ N)	76752-82-4
PFOA, 及其盐&衍生物	
全氟辛酸(PFOA)	335-67-1
全氟辛酸钠(PFOA-Na)	335-95-5
全氟辛酸钾(PFOA-K)	2395-00-8
全氟辛酸银(PFOA-Ag)	335-93-3
王州 千 政 版(T OA-Ag)	
全氟辛酰氟(PFOA-F)	335-66-0
全氟辛酰氟(PFOA-F)	335-66-0
全氟辛酰氟(PFOA-F) 全氟辛酸铵(APFO)	335-66-0 3825-26-1



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全氟辛酸铬(3+) (PFOA-Cr(3+))	68141-02-6
全氟辛酸-哌嗪(2:1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
全氟辛酸盐	45285-51-6
全氟辛酸酐	33496-48-9
全氟辛酸四乙基胺	98241-25-9
全氟辛酸四甲基胺	32609-65-7
全氟辛酸四丙基胺	277749-00-5
全氟辛酸钾水合物 (PFOA-K(H ₂ O) ₂)	98065-31-7
全氟辛酸乙胺 (PFOA-C ₂ H ₇ N)	1376936-03-6
全氟辛酸吡啶 (PFOA-C5H5N)	95658-47-2
全氟辛酸苯基哌嗪 (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
全氟辛酸辛基三甲基铵 (PFOA-C ₁₁ H ₂₆ N)	927835-01-6
8:2 FTS, 及其盐	
1H,1H,2H,2H-全氟癸烷磺酸(8:2 FTS)	39108-34-4
1H,1H,2H,2H-全氟癸磺酸钾(8:2 FTS-K)	438237-73-1
1H,1H,2H,2H-全氟癸磺酸铵(8:2 FTS-NH ₄)	149724-40-3
1H,1H,2H,2H-全氟癸磺酸钠(8:2 FTS-Na)	27619-96-1
1H,1H,2H,2H-全氟癸磺酸盐 (8:2 FTS(anion))	481071-78-7
8:2 FTCA, 及其盐	-
2H,2H-全氟癸酸(8:2 FTCA)	27854-31-5
四丁基磷2H,2H-全氟癸酸酯(8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
8:2diPAP, 及其盐	
双[2-(全氟辛基)]乙基磷酸酯(8:2diPAP)	678-41-1
双[2-(全氟辛基)]乙基磷酸酯钠(8:2diPAP-Na)	114519-85-6
双(2-羟乙基)铵双(全氟辛基)乙基)磷酸氢	57677-97-1
双[2-(全氟辛基)]乙基磷酸酯铵盐(8:2 diPAP-NH ₄)	93776-20-6
8:2氟调聚物磷酸二酯离子	1411713-91-1
8:3 FTCA, 及其盐	
2H,2H,3H,3H-全氟十一烷酸(8:3 FTCA)	34598-33-9
2H,2H,3H,3H-全氟十一烷酸钾(8:3 FTCA-K)	83310-58-1
2H,2H,3H,3H-全氟十一酸锂(8:3 FTCA-Li)	67304-23-8
8:8 PFPi,及其盐	
8:8全氟次膦酸 (8:8 PFPi)	40143-79-1
8:8 全氟次膦酸钠盐 (8:8 PFPi-Na)	500776-69-2
8:8 全氟次膦酸铒(3+)盐 (8:8 PFPi-Er)	500776-70-5
8:8 全氟次膦酸镱(3+)盐 (8:8 PFPi-Yb)	500776-71-6
8:2 monoPAP, 及其盐	1
单[2-(全氟辛基)乙基]磷酸盐 (8:2 monoPAP)	57678-03-2
8:2氟调聚物磷酸二铵盐	93857-44-4
8:2氟调聚物磷酸钠盐	438237-75-3
双[2-(全氟辛基)乙基]磷酸铵盐	1764-95-0
单[2-(全氟辛基)乙基]磷酸铵盐	92401-44-0
单[2-(全氟辛基)乙基]磷酸单钠盐	144965-22-0
干[4-(土州十至)4至]桝段平附益	144903-22-0



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单[2-(全氟辛基)乙基]磷酸单钾盐	150033-28-6
单[2-(全氟辛基)乙基]磷酸氢铵盐	2353-52-8

- (9) 全氟己烷磺酸(PFHxS)及其盐和相关化合物
 - (a). 2023年8月8日,欧盟委员会于欧盟官方公报发布 (EU)2023/1608法规,修订了2023年5月30日发布的 法规(EU)2019/1021附件I中关于全氟己烷磺酸(PFHxS)、其盐和PFHxS相关化合物清单。

物质	范围	中间用途或其他规范的特殊豁免
PFHxS 及其盐	物质或混合物,物品	≤ 0.025 mg/kg
PFHxS相关物质	物质或混合物,物品	≤ 1 mg/kg (单项或PFHxS相关物质总和)
PFHxS 及其盐和	浓缩消防泡沫混合物	≤ 0.1 mg/kg (3年内进行审查以降低限值)
PFHxS相关化合物		

(b). 本报告中检测的全氟己烷磺酸(PFHxS)及其盐类和PFHxS相关化合物来自欧洲化学品管理局的"持久性有机污染物官方清单",请通过以下网络链接查找更多信息 List of substances proposed as POPs - ECHA (europa.eu)

(c). ^=物质是指下表PFHxS列出的盐/衍生物。

物质名称	CAS No.
PFHxS, 及其盐&衍生物	
全氟己基磺酸(PFHxS)	355-46-4
全氟己基磺酸钠(PFHxS-Na)	82382-12-5
全氟己基磺酸钾(PFHxS-K)	3871-99-6
全氟己基磺酸锂(1:1)(PFHxS-Li)	55120-77-9
全氟己基磺酸铵(PFHxS-NH ₄)	68259-08-5
全氟己基磺酸三苯基(苯基甲基)-磷鎓盐(PFHxS-BTPP)	1000597-52-3
N,N,N-三丁基丁烷-1-胺全氟己基磺酸盐(PFHxS-N(C ₄ H ₉) ₄)	108427-54-9
N, N,N-三乙基乙胺全氟己基磺酸盐(PFHxS-N(C ₂ H ₅) ₄)	108427-55-0
全氟己基磺酸与四氢吡咯络合物(PFHxS-NC ₄ H ₉)	1187817-57-7
全氟-1-己基磺酸-N-[4-[[4-(二乙基氨基)苯基][4-(乙基氨基)-1-萘基]亚	1310480-24-0
甲基]-2,5-环己二烯-1-亚基]-N-乙基-乙铵盐(PFHxS-(NC10H14)3C5H4)	
全氟-1-己基磺酸-N-[4-[[4-(二甲基氨基)苯基][4-(乙基氨基)-1-萘基]亚	1310480-27-3
甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-	
(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	
全氟-1-己基磺酸-N-[4-[[4-(二甲基氨基)苯基][4-(苯基氨基)-1-萘基]亚	1310480-28-4
甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-	
(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	4000005 45 0
全氟己基磺酸与β-环糊精络合物(PFHxS-C42H70O35)	1329995-45-0
全氟己基磺酸与γ-环糊精络合物(PFHxS-C48H80O40)	1329995-69-8
全氟己基磺酸三苯基硫鎓盐(TPS-PFHxS)	144116-10-9
全氟己基磺酸喹啉, 1-(羧甲基)-4-[2-[4-[4-(2,2-二苯基噻吩基)苯基]-	1462414-59-0
1,2,3a,4,8b-六氢环戊并[b]吲哚-7-基]乙烯基]盐(PFHxS-C ₄₄ H ₃₇ N ₂ O ₂)	
全氟己基磺酸二苯基碘鎓盐(PFHxS-I(C ₆ H ₅) ₂)	153443-35-7



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N,N,N-三甲基-全氟己基磺酸甲基铵盐(PFHxS-TMA)	189274-31-5
全氟己基磺酸与2-甲基-2-丙胺络合物(1:1)(PFHxS-NH2(CH3)3)	202189-84-2
全氟己基磺酸双[4-(1,1-二甲基乙基)苯基]碘鎓盐(PFHxS-	213740-81-9
$I(C_6H_4)_2(C_4H_9)_2)$	
全氟己基磺酸镓(9CI)(PFHxS-Ga)	341035-71-0
全氟己基磺酸双(4-甲基苯基)苯基硫鎓盐(1:1)(PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅)	341548-85-4
全氟己基磺酸钪(PFHxS-Sc)	350836-93-0
全氟己基磺酸钕(PFHxS-Nd)	41184-65-0
全氟己基磺酸钇(PFHxS-Y)	41242-12-0
全氟己基磺酸(硫代二-4,1-亚苯基)双[二苯基]硫鎓盐(PFHxS-	421555-73-9
$S_3(C_6H_5)_4(C_6H_4)_2)$	
全氟己基磺酸双[4-(1,1-二甲基丙基)苯基]碘鎓盐(PFHxS-	421555-74-0
I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂)	
全氟己基磺酰氟(PFHxS-F)	423-50-7
全氟己基磺酸三[4-(1,1-二甲基乙基)苯基]硫鎓盐(PFHxS-	425670-70-8
S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃)	70400 70 0
全氟己基磺酸锌(PFHxS-Zn)	70136-72-0
全氟己基磺酸与2,2'-亚氨二乙醇络合物(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0
全氟己基磺酸与三乙胺络合物(1:1)(PFHxS-N(C ₂ H ₅) ₃)	72033-41-1
全氟己基磺酸双[(1,1-二甲基乙基)苯基]碘鎓盐(PFHxS-	866621-50-3
I(C6H4)2(C4H9)2)	040606 20 2
全氟己基磺酸(4-甲基苯基)二苯硫鎓盐(PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2 911027-68-4
全氟己基磺酸[4-[(2-甲基-1-氧代-2-丙烯酰)氧基]苯基]二苯基硫鎓盐 (PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)	911027-08-4
全氟己基磺酸铯(1:1)(PFHxS-Cs)	92011-17-1
二苯并[k,n][1,4,7,13]四氧杂硫环戊二烯,19-[4-(1,1-二甲基乙基)苯基]-	928049-42-7
6,7,9,10,12,13-六氢-,全氟己基磺酸盐(PFHxS-SC ₂₈ H ₃₁ O ₄)	020010121
全氟己基磺酰氯(PFHxS-CI)	55591-23-6
PFHxS-磺酸酯聚合物	911027-69-5
全氟己基磺酸盐	108427-53-8
全氟己基磺酸四丁基鏻 (PFHxS-P(C ₄ H ₉) ₄))	2310194-12-6
EtFHxSAA,及其盐	1
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸(EtFHxSAA)	68957-32-4
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸钾(EtFHxSAA-K)	67584-53-6
N-乙基-N-((十三氟己基)磺酰基)甘氨酸钠(EtFHxSAA-Na)	68555-70-4
TO CETT (() — 两口至)吸风至) II	1 22300 . 0 .

(10)对POPs物质的分析检测是基于现有的技术,根据客户要求进行检测。

(11)结论仅针对报告上的物质清单。

备注:样品 A4 的检测是基于申请人要求混合检测,报告中的混合检测结果不代表其中个别单一材质的含量,该检测数据仅供参考。

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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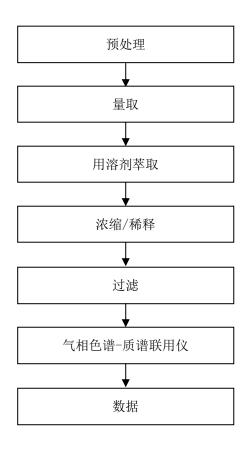


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PAHs 检测流程图





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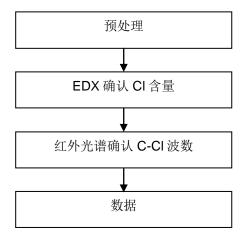


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PVC 检测流程图





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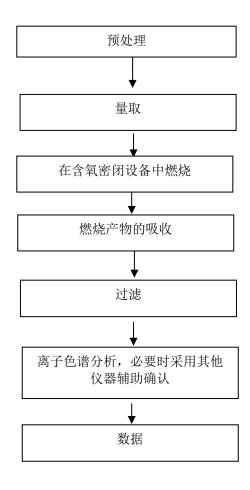


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卤素检测流程图





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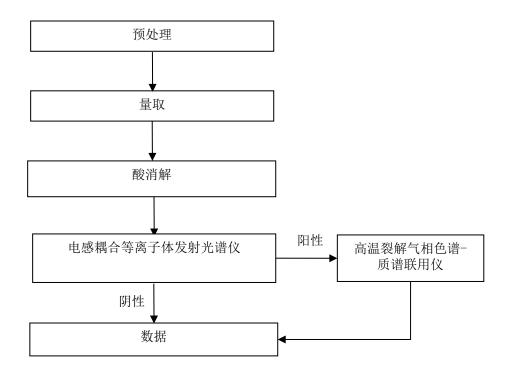
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附件

红磷检测流程图





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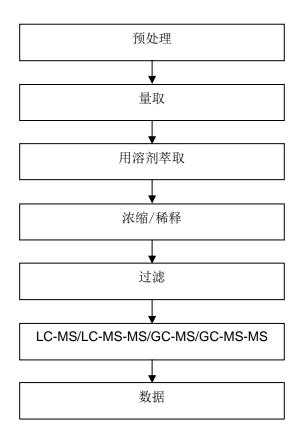


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PFASs/ PFOS/PFOA 检测流程图





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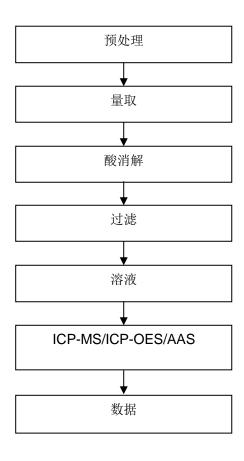


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元素检测流程图





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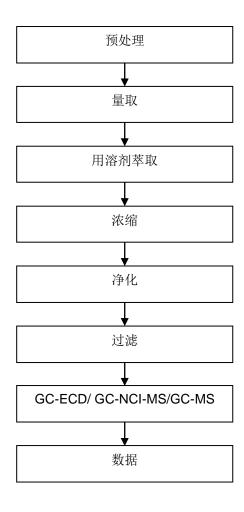


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氯化石蜡检测流程图





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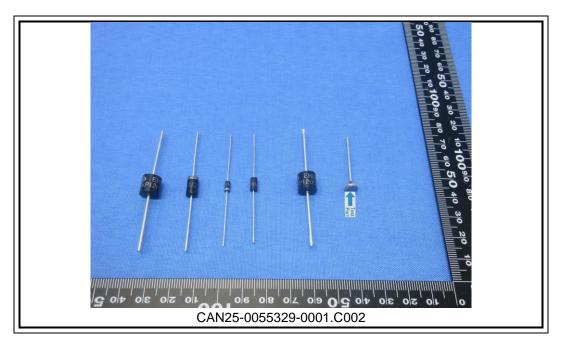
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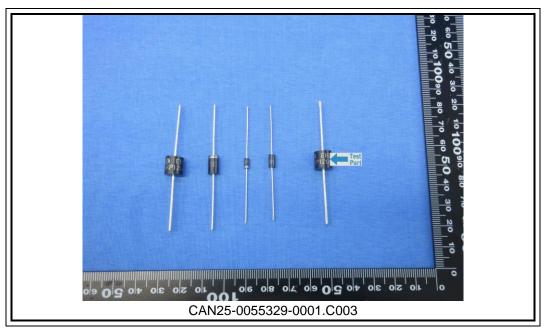
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