检测报告

客户名称：　深圳市永源微电子科技有限公司

客户地址：　深圳市宝安区福海和秀西路 44 号锐明工业园 C2 栋

样品名称：　半导体元器件

型号：　TO252-3L

客户参考信息：　TO252-3L、TO252-4L、TO263-3L、TO251S-3L、TO220F-3L、TO220-3L、TO247-3L、PDFN3*3-8L、PDFN5*6-8L、TO263-6L、TOLLA-8L、STOLL-5L、TO264-3L　TOLT-16L、TO3P-3L、TO262-3L、TO251L-3L、DIP8、TO247S-3L

以上样品及信息由客户提供。

此报告替代原来编号为 SZXEC26003748712, 日期为 2026 年 06 月 23 日的报告。

SGS 工作编号：　SZP26-029866

样品接收时间：　2026 年 06 月 16 日

检测周期：　2026 年 06 月 16 日 ~ 2026 年 06 月 23 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 POPs 法规(EU) 2019/1021 附录 I–C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)	符合
欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2024/2570–六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	符合
欧盟 POPs 法规 (EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/718 - 全氟辛酸(PFOA)及其盐，全氟辛酸(PFOA)相关化合物，全氟辛烷磺酸(PFOS)及其盐和全氟辛烷磺酸(PFOS)相关化合物	符合
欧盟 POPs 法规 (EU) 2019/1021 及其修正法规(EU) 2023/1608-全氟己烷磺酸(PFHxS)及其盐和相关化合物	符合

通标标准技术服务有限公司深圳分公司

授权签名

Tina Fan 范萍

批准签署人

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检测方法： 优化的 EN 17681-1:2025，采用 LC-MS 或 LC-MS/MS 和 GC-MS 或 GC-MS/MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A2
PFOS, 及其盐					
全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	0.025	mg/kg	0.010	ND
PFOS 相关化合物					
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), 及其盐^	754-91-6	-	mg/kg	0.010	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
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
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
2-(N-乙基全氟辛烷磺酰胺基)丙烯酸乙酯 (EtFOSAC)	423-82-5	-	mg/kg	0.200	ND
PFOS 相关化合物总和	-	1	mg/kg	-	ND
PFOA, 及其盐					
全氟辛酸 (PFOA), 及其盐^	335-67-1	0.025	mg/kg	0.010	ND
PFOA 相关化合物					
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
全氟辛酸甲酯 (Me-PFOA)	376-27-2	1	mg/kg	0.200	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	1	mg/kg	0.200	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
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
全氟辛基碘烷 (PFOI)	507-63-1	1	mg/kg	0.200	ND
2H, 2H-全氟癸酸 (8:2 FTCA), 及其盐^	27854-31-5	1	mg/kg	0.010	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	1	mg/kg	0.100	ND
1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)	2043-53-0	1	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸基三乙氧基硅烷 (8:2 FTSi(OC_2H_5)$_3$)	101947-16-4	1	mg/kg	0.100	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
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
全氟辛基乙烯 (PFDE)	21652-58-4	1	mg/kg	0.100	ND
3-全氟庚基丙酸 (7:3 FTCA)	812-70-4	1	mg/kg	0.010	ND

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检测项目	CAS No.	限值	单位	MDL	A2
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
2H-全氟-2-癸烯酸 (8:2 FTUCA)	70887-84-2	1	mg/kg	0.010	ND
6:8 全氟次膦酸 (6:8 PFPi)	610800-34-5	1	mg/kg	0.010	ND
8:8 全氟次膦酸 (8:8 PFPi), 及其盐^	40143-79-1	1	mg/kg	0.010	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
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
1H,1H,2H,2H-全氟-1-十二烷醇 (10:2 FTOH)	865-86-1	1	mg/kg	0.100	ND
1,1,2,2-四氢全氟-1-十四醇 (12:2 FTOH)	39239-77-5	1	mg/kg	0.100	ND
1H,1H,2H,2H-全氟十二烷磺酸 (10:2 FTS), 及其盐^	120226-60-0	1	mg/kg	0.100	ND
双[2-(全氟癸基)乙基]磷酸盐 (10:2 diPAP), 及其盐^	1895-26-7	1	mg/kg	0.100	ND
2H-全氟-2-十二烯酸 (10:2 FTUCA)	70887-94-4	1	mg/kg	0.010	ND
2-全氟癸基乙酸 (10:2 FTCA)	53826-13-4	1	mg/kg	0.010	ND
单[2-(全氟癸基)乙基]磷酸酯 (10:2 monoPAP), 及其盐^	57678-05-4	1	mg/kg	0.100	ND
1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA)	17741-60-5	1	mg/kg	0.100	ND
1H,1H,2H,2H-全氟十二烷基甲基丙烯酸酯 (10:2 FTMA)	2144-54-9	1	mg/kg	0.100	ND
全氟癸基乙基碘 (10:2 FTI)	2043-54-1	1	mg/kg	0.100	ND
1H,1H,2H,2H-全氟十四烷基碘 (12:2 FTI)	30046-31-2	1	mg/kg	0.100	ND
1-碘全氟癸烷 (PFDI)	423-62-1	1	mg/kg	0.100	ND
全氟碘代十二烷 (PFDoDI)	307-60-8	1	mg/kg	0.100	ND
PFOA 相关化合物总和	-	1	mg/kg	-	ND
结论					**符合**

备注：

(1) 依据欧盟POPs法规 (EU) 2019/1021 附录I 及其修正法规 (EU) 2025/718，在物质，混合物或物品中，全氟辛烷磺酸 (PFOS)及其盐的浓度等于或低于0.025 mg/kg(0,0000025 %)，PFOS相关化合物总和的浓度等于或低于1 mg/kg(0,0001%)，适用日期：2025年12月3日起。

(2) ^=物质是指下表中列出的盐/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

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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-$NH_2(C_2H_4OH)_2$)	70225-14-8
全氟辛基磺酸四乙基铵(PFOS-$N(C_2H_5)_4$)	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-$N(C_4H_9)_4$)	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-$NH(C_2H_5)_3$)	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-$N(C_3H_7)_3(C_5H_{11})$)	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-$N(C_4H_9)_3(CH_3)$)	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
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 $(C_4H_9)_4$))	2185049-59-4
全氟辛基磺酸二乙胺 (PFOS-$C_4H_{11}N$)	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
全氟辛基磺酰氯(PFOS-Cl)	423-60-9
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
六氯环己烷(N-甲基-(N-(全氟辛基磺酰)甘氨酸根-O1:O1'))二羟基三铬	97298-47-0
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

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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-NH_4)	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
二水四氯[μ-[N-乙基-N-[(全氟辛基)磺酰]甘氨酸根-O1:O1′]]-μ-羟基双[2-甲基丙醇]二铬	68891-96-3
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-$C_6H_{15}N$)	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($C_4H_{10}N$))	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_2O)$_2$)	98065-31-7
全氟辛酸乙胺(PFOA-C_2H_7N)	1376936-03-6
全氟辛酸吡啶(PFOA-C_5H_5N)	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
全氟辛酰氯(PFOA-Cl)	335-64-8
全氟辛酰溴(PFOA-Br)	222037-87-8
8:2 FTS, 及其盐	

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中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏（坂田）工业厂区厂房4号101-901、2号101、3号101、3号301-501 邮编:518129 t (86-755) 25328888 sgs.china@sgs.com
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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
1H,1H,2H,2H-全氟癸磺酰氯 (8:2 FTS-Cl)	27619-90-5
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_4H_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	
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
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
10:2 FTS, 及其盐	
1H,1H,2H,2H-全氟十二烷磺酸(10:2 FTS)	120226-60-0
1H,1H,2H,2H-全氟十二烷磺酸钠 (10:2 FTS-Na)	108026-35-3
1H,1H,2H,2H-全氟十二烷磺酰氯(10:2 FTS-Cl)	27619-91-6
10:2 diPAP, 及其盐	

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双[2-(全氟癸基)乙基]磷酸盐(10:2 diPAP)	1895-26-7
2,2'-亚氨基二乙醇双[2-(全氟癸基)乙基]磷酸盐 (10:2 diPAP-$C_4H_{11}O_2$)	57677-98-2
10:2 monoPAP, 及其盐	
单[2-(全氟癸基)乙基]磷酸酯 (10:2 monoPAP)	57678-05-4
单[2-(全氟癸基)乙基]磷酸双铵盐	93857-45-5
二十一氟十二烷基磷酸二氢酯环己铵盐	2514858-66-1

(3) 结论仅针对报告上的物质清单。

欧盟 POPs 法规 (EU) 2019/1021 及其修正法规(EU) 2023/1608-全氟己烷磺酸(PFHxS)及其盐和相关化合物

检测方法： 优化的 EN 17681-1:2025, 采用 LC-MS 或 LC-MS/MS 和 GC-MS 或 GC-MS/MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A2
PFHxS, 及其盐					
全氟己基磺酸 (PFHxS)，及其盐^	355-46-4	0.025	mg/kg	0.010	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
全氟己烷磺酰胺 (PFHxSA)	41997-13-1	1	mg/kg	0.010	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
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
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
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
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
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
PFHxS 相关化合物总和	-	1	mg/kg	-	ND
结论					**符合**

备注：

(1) 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)

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PFHxS 及其盐和 PFHxS相关化合物	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)

(2) 本报告中检测的全氟己烷磺酸(PFHxS)及其盐类和PFHxS相关化合物参考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：
https://echa.europa.eu/list-of-substances-proposed-as-pops

(3) ^=物质是指下表列出的盐/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_4H_9)$_4$)	108427-54-9
N, N,N-三乙基乙胺全氟己基磺酸盐(PFHxS-N(C_2H_5)$_4$)	108427-55-0
全氟己基磺酸与四氢吡咯络合物(PFHxS-NC_4H_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]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基-乙铵盐(PFHxS-($NC_{10}H_{14}$)$_3C_5H_4$)	1310480-24-0
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]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC_8H_{10})$_2C_{13}H_{12}$)	1310480-27-3
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]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC_8H_{10})$_2C_{17}H_{12}$)	1310480-28-4
全氟己基磺酸与β-环糊精络合物(PFHxS-$C_{42}H_{70}O_{35}$)	1329995-45-0
全氟己基磺酸与γ-环糊精络合物(PFHxS-$C_{48}H_{80}O_{40}$)	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]-1,2,3a,4,8b-六氢环戊并[b]吲哚-7-基]乙烯基]盐(PFHxS-$C_{44}H_{37}N_2O_2$)	1462414-59-0
全氟己基磺酸二苯基碘鎓盐(PFHxS-I(C_6H_5)$_2$)	153443-35-7
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-$NH_2(CH_3)_3$)	202189-84-2
全氟己基磺酸双[4-(1,1-二甲基乙基)苯基]碘鎓盐(PFHxS-I(C_6H_4)$_2$(C_4H_9)$_2$)	213740-81-9
全氟己基磺酸镓(9CI)(PFHxS-Ga)	341035-71-0

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全氟己基磺酸双(4-甲基苯基)苯基硫鎓盐(1:1)(PFHxS-$S(C_7H_7)_2C_6H_5$)	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-$S_3(C_6H_5)_4(C_6H_4)_2$)	421555-73-9
全氟己基磺酸双[4-(1,1-二甲基丙基)苯基]碘鎓盐(PFHxS-$I(C_6H_4)_2(C_5H_{11})_2$)	421555-74-0
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-$S(C_6H_4)_3(C_4H_9)_3$)	425670-70-8
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-$NH(C_2H_5O)_2$)	70225-16-0
全氟己基磺酸与三乙胺络合物(1:1)(PFHxS-$N(C_2H_5)_3$)	72033-41-1
全氟己基磺酸双[(1,1-二甲基乙基)苯基]碘鎓盐(PFHxS-$I(C_6H_4)_2(C_4H_9)_2$)	866621-50-3
全氟己基磺酸(4-甲基苯基)二苯硫鎓盐(PFHxS-$S(C_6H_5)_2C_7H_7$)	910606-39-2
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-$S(C_6H_5)_2C_{10}H_9O_2$)	911027-68-4
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]-6,7,9,10,12,13-六氢-,全氟己基磺酸盐(PFHxS-$SC_{28}H_{31}O_4$)	928049-42-7
全氟己基磺酰氯(PFHxS-Cl)	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-$P(C_4H_9)_4$))	2310194-12-6
EtFHxSAA，及其盐	
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

(4) 结论仅针对报告上的物质清单。

欧盟 POPs 法规(EU) 2019/1021 附录 I–卤代化合物

检测方法： SGS 内部方法，采用 GC-ECD 或 GC-MS 进行分析 。

检测项目	CAS No.	限值	单位	MDL	A2
六氯丁二烯	87-68-3	禁用	mg/kg	5	ND

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检测项目	CAS No.	限值	单位	MDL	A2
五氯苯	608-93-5	禁用	mg/kg	5	ND
多氯联苯 (PCBs)	1336-36-3 和其它	禁用	mg/kg	0.2	ND
多氯萘(PCNs)	70776-03-3 和其它	禁用	mg/kg	5	ND
六溴联苯	36355-01-8	禁用	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	40088-47-9 和其它	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	32534-81-9 和其它	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	36483-60-0 和其它	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	68928-80-3 和其它	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	1163-19-5	-	mg/kg	5	ND
多溴二苯醚总和*	-	10	mg/kg	-	ND
结论					**符合**

备注：

(1) 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。

(2) 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。

(3) 依据欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/1482，为加强《持久性有机污染物重新预测条例》的应用和执行，当化学物质存在于物质、混合物和物品中时，为 5 种多溴联苯醚（PBDE）阻燃剂设定了无意痕量污染物(UTC)值。

物质	范围	中间用途或其他规范的特殊豁免	生效日期
四溴二苯醚 五溴二苯醚 六溴二苯醚 七溴二苯醚 十溴二苯醚	混合物[1] 物品[1]	≤ 10 mg/kg (总和)	2025.11.17
	含有回收材料或由回收材料制成的混合物或物品[1]	≤ 500 mg/kg (总和)	2025.11.17
		≤ 350 mg/kg (总和)	2025.12.30
		≤ 200 mg/kg (总和)	2027.12.30
	以下产品含有回收材料或由回收材料制成： -玩具[1]，[2] -方便儿童就座、睡眠、放松、卫生、更衣和一般身体护理、喂养、吮吸、运输和保护的产品[1]	≤ 500 mg/kg (总和)	2025.11.17
		≤ 350 mg/kg (总和)	2025.12.30
		≤ 10 mg/kg (总和)	2027.5.17
[1]豁免受(EC) No 1935/2004 法规管控的食品接触材料			
[2]2009/48/EC 指令范围内的玩具			

(4) 在不影响指令 96/59/EC 的情况下，允许使用在本法规生效时已经使用的物品。成员国应尽快但不迟于 2025 年 12 月 31 日确定并停止使用多氯联苯含量超过 0.005%且体积大于 0.05 立方分米的设备（如变压器、电容器或其他含有液体库存的容器）。

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欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/843- UV-328

检测方法： SGS 内部方法，采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A2
UV-328	25973-55-1	100	mg/kg	1	ND
结论					**符合**

备注：
(1) 依据欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/843，为加强《持久性有机污染物重新预测条例》的应用和执行，当化学物质存在于物质、混合物和物品中时，为 UV-328 设定了无意痕量污染物(UTC)值，这一 UTC 限制值将在四年内得到加强。

物质	**范围**	**中间用途或其他规范的特殊豁免**	**生效日期**
UV-328	物质、混合物和物品	≤ 100 mg/kg	2025.8.4
		≤ 10 mg/kg	2027.8.4
		≤ 1.0 mg/kg	2029.8.4

欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/1930- 得克隆 (DP)

检测方法： SGS 内部方法，采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A2
得克隆 (DP)	13560-89-9 /135821-03-3 /135821-74-8	1000	mg/kg	1	ND
结论					**符合**

备注：
(1) 依据欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/1930，为加强《持久性有机污染物重新预测条例》的应用和执行，当化学物质存在于物质、混合物和物品中时，为得克隆设定了无意痕量污染物(UTC)值。

物质	**范围**	**中间用途或其他规范的特殊豁免**	**生效日期**
得克隆 (DP)	物质、混合物和物品	≤ 1000 mg/kg	到 2028.4.15
		≤ 1 mg/kg	2028.4.15 之后

备注：本报告更新了客户参考信息。
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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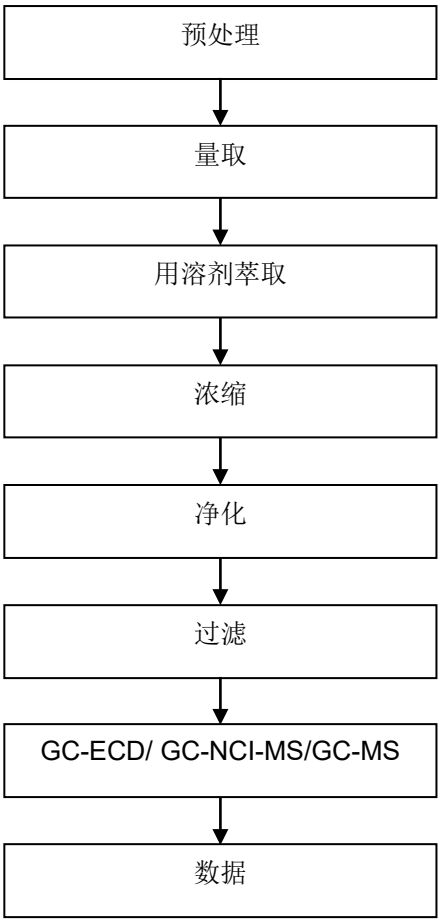
附件

氯化石蜡检测流程图



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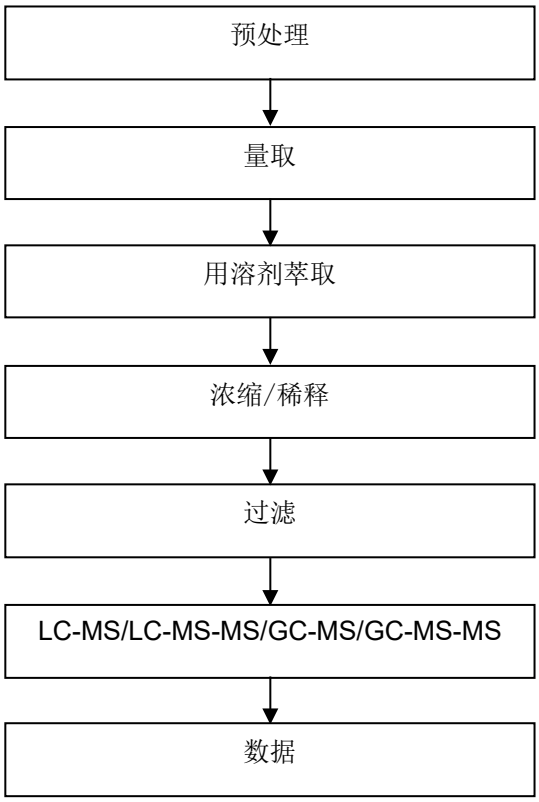
PFASs/ PFOS/PFOA 检测流程图



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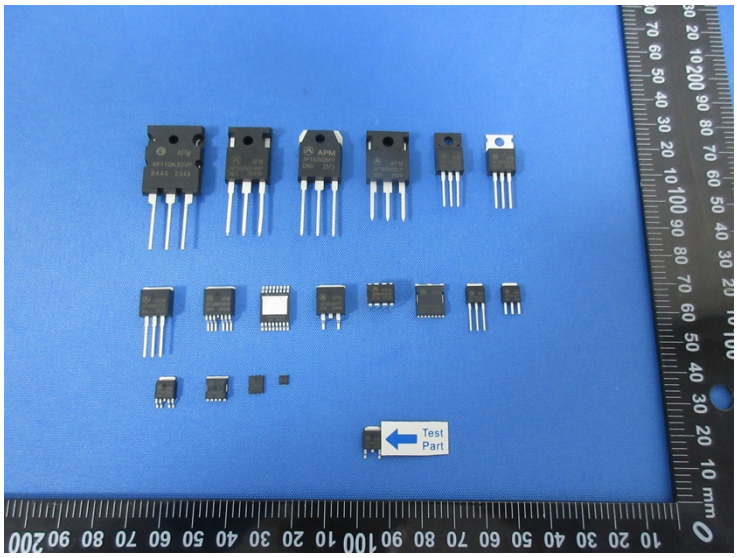

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