

## 检测报告

编号: SHAEC26008402602

日期: 2026年04月08日

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客户名称: 江苏长晶科技股份有限公司  
客户地址: 中国(江苏)自由贸易试验区南京片区研创园腾飞大厦C座13楼

样品名称: 半导体元件  
型号: SOT-23  
客户参考信息: DFN、PDFN、SOD-123/323/523/723/923/123FL、SOP8/14/16/18/20/24、SOT-23 (-XL) /89 (-XL) /143/223/323/343/353/363/523/553/563/723、TO-92/92L/92S/92MOD/126/220 (-XL) /220A/220F (-XL) /227/247/251/251S/252 (-XL) /263/277/3P、TSSOP8、FBP、CSP、QFN、TSOT、WBFBP、WBHFBP、MSOP8、ESOP8、DIP8/14/16/18、SOP8PP、SOP10、TSSOP14、ETSSOP16、WBLGA6×6-44L、6GBJ、ABS、DB、DBS、GBJ、GBL、GBP、GBU、JBF、JBSL、KBL、KBP、KBU、KBJ、MBF、MBS、SMA、SMAF、SMAG、SMAJ、SMB、SMBF、SMBG、SMBJ、SMC、SMCG、SMD、R-1、R-6、A-405、DO-15、DO-27、DO-41、UMSB、SOD-123HE、TO-220F-B、TO-220-2L、TO-220F-2L、TO-247-3L、TO-247-2L、4GBJ、D3K、TO-92K/126K/220AK/220BK/220CK/220FK/262K/263K/3PK/247K/252-2LK、SOT-223-3LK、SOT-23-3LK、SOT-89K

以上样品及信息由客户提供。

SGS 工作编号: SHP26-010251  
样品接收时间: 2026年04月01日  
检测周期: 2026年04月01日 ~ 2026年04月08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 <sub>10</sub> -C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)	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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SGS-CTC Standards Technical Services (Shanghai) Co., Ltd.  
Chemical Laboratory

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检测要求	结论
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( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -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
欧盟 POPs 法规(EU) 2019/1021 附录 I-卤代化合物	符合
欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/843- UV-328	符合
欧盟 POPs 法规(EU) 2019/1021 附录 I 及其修正法规 (EU) 2025/1930- 得克隆 (DP)	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	SHA26-0084026-0001.C001	黑色固体带银色金属

### 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 POPs 法规(EU) 2019/1021 附录 I-C<sub>10</sub>-C<sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)

检测方法: 参考 ISO 22818:2021, 采用 GC-NCI-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
C <sub>10</sub> -C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8 及其它	1500	mg/kg	50	ND
结论					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( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)

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	A1
六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	75	mg/kg	20	ND



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检测项目	CAS No.	限值	单位	MDL	A1
结论					符合

**备注:**

(1) 委员会应在 2026 年 1 月 1 日前审查和评估规定的豁免。

**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**

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	A1
<b>PFOS, 及其盐</b>					
全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	0.025	mg/kg	0.010	ND
<b>PFOS 相关化合物</b>					
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
<b>PFOA, 及其盐</b>					
全氟辛酸 (PFOA), 及其盐^	335-67-1	0.025	mg/kg	0.010	ND
<b>PFOA 相关化合物</b>					
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



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检测项目	CAS No.	限值	单位	MDL	A1
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 <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	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 <sup>^</sup>	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 <sup>^</sup>	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
1H,1H,2H,2H-全氟癸基三氯硅烷 (8:2 FTSiCl <sub>3</sub> )/ 1H,1H,2H,2H-全氟癸基三甲氧基硅烷 (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> )	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 <sup>^</sup>	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 <sup>^</sup>	57678-03-2	1	mg/kg	0.100	ND
1H,1H,2H,2H-全氟-1-十二醇 (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-全氟十二烷基磺酸 (10:2 FTS), 及其盐 <sup>^</sup>	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 <sup>^</sup>	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 <sup>^</sup>	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 (PFD <sub>o</sub> DI)	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



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氟辛烷磺酸 (PFOS)及其盐的浓度等于或低于0.025 mg/kg(0,000025 %), 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.
<b>PFOS, 及其盐&amp;衍生物</b>	
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 <sub>4</sub> )	29081-56-9
全氟辛基磺酸二乙醇铵(PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )	70225-14-8
全氟辛基磺酸四乙基铵(PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	56773-42-3
全氟辛基磺酸二癸二甲基铵(PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> )	251099-16-8
全氟辛基磺酸四丁基铵(PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	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 <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	54439-46-2
全氟辛烷磺酸四甲基铵(PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )	56773-44-5
N, N, N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))	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 <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))	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)铊	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磷 (PFOS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	2185049-59-4
全氟辛基磺酸二乙胺 (PFOS-C <sub>4</sub> H <sub>11</sub> 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 <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )	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
<b>FOSAA, 及其盐</b>	
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
<b>N-MeFOSAA, 及其盐</b>	



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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
<b>N-EtFOSAA, 及其盐</b>	
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-NH <sub>4</sub> )	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
<b>PFOSA, 及其盐</b>	
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 <sub>4</sub> )	76752-72-2
全氟辛基磺酰胺三乙胺 (PFOSA-C <sub>6</sub> H <sub>15</sub> N)	76752-82-4
<b>PFOA, 及其盐&amp;衍生物</b>	
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 <sub>4</sub> H <sub>10</sub> 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 <sub>2</sub> O) <sub>2</sub> )	98065-31-7
全氟辛酸乙胺 (PFOA-C <sub>2</sub> H <sub>7</sub> N)	1376936-03-6
全氟辛酸吡啶 (PFOA-C <sub>5</sub> H <sub>5</sub> N)	95658-47-2
全氟辛酸苯基哌嗪 (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )	1514-68-7
全氟辛酸辛基三甲基胺 (PFOA-C <sub>11</sub> H <sub>26</sub> N)	927835-01-6



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全氟辛酰氯 (PFOA-Cl)	335-64-8
全氟辛酰溴(PFOA-Br)	222037-87-8
<b>8:2 FTS, 及其盐</b>	
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 <sub>4</sub> )	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
<b>8:2 FTCA, 及其盐</b>	
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 <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7
<b>8:2diPAP, 及其盐</b>	
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 <sub>4</sub> )	93776-20-6
8:2氟调聚物磷酸二酯离子	1411713-91-1
<b>8:3 FTCA, 及其盐</b>	
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
<b>8:8 PFPI,及其盐</b>	
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 全氟次膦酸铟(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
<b>8:2 monoPAP, 及其盐</b>	
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
<b>10:2 FTS, 及其盐</b>	
1H,1H,2H,2H-全氟十二烷磺酸(10:2 FTS)	120226-60-0



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# 检测报告

编号: SHAEC26008402602

日期: 2026年04月08日

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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
<b>10:2 diPAP, 及其盐</b>	
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 <sub>4</sub> H <sub>11</sub> O <sub>2</sub> )	57677-98-2
<b>10:2 monoPAP, 及其盐</b>	
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	A1
<b>PFHxS, 及其盐</b>					
全氟己基磺酸 (PFHxS), 及其盐 <sup>^</sup>	355-46-4	0.025	mg/kg	0.010	ND
<b>PFHxS 相关化合物</b>					
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 <sup>^</sup>	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



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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 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.
<b>PFHxS, 及其盐&amp;衍生物</b>	
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 <sub>4</sub> )	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 <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	108427-54-9
N,N,N-三乙基乙胺全氟己基磺酸盐(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	108427-55-0
全氟己基磺酸与四氢吡咯络合物(PFHxS-NC <sub>4</sub> H <sub>9</sub> )	1187817-57-7
全氟-1-己基磺酸-N-[4-[[4-(二乙氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-乙基-乙铵盐(PFHxS-(NC <sub>10</sub> H <sub>14</sub> ) <sub>3</sub> C <sub>5</sub> H <sub>4</sub> )	1310480-24-0
全氟-1-己基磺酸-N-[4-[[4-(二甲基氨基)苯基][4-(乙氨基)-1-萘基]亚甲基]-2,5-环己二烯-1-亚基]-N-甲基-甲基铵盐(PFHxS-(NC <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>13</sub> H <sub>12</sub> )	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 <sub>8</sub> H <sub>10</sub> ) <sub>2</sub> C <sub>17</sub> H <sub>12</sub> )	1310480-28-4
全氟己基磺酸与β-环糊精络合物(PFHxS-C <sub>42</sub> H <sub>70</sub> O <sub>35</sub> )	1329995-45-0
全氟己基磺酸与γ-环糊精络合物(PFHxS-C <sub>48</sub> H <sub>80</sub> O <sub>40</sub> )	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]吡啶-7-基]乙基]盐(PFHxS-C <sub>44</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub> )	1462414-59-0
全氟己基磺酸二苯基碘鎓盐(PFHxS-I(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )	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 <sub>2</sub> (CH <sub>3</sub> ) <sub>3</sub> )	202189-84-2
全氟己基磺酸双[4-(1,1-二甲ethyl)苯基]碘鎓盐(PFHxS-I(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	213740-81-9
全氟己基磺酸镓(9Cl)(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 <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	341548-85-4



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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 <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> (C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> )	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 <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>5</sub> H <sub>11</sub> ) <sub>2</sub> )	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 <sub>6</sub> H <sub>4</sub> ) <sub>3</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> )	425670-70-8
全氟己基磺酸锌(PFHxS-Zn)	70136-72-0
全氟己基磺酸与2,2'-亚氨基二乙醇络合物(PFHxS-NH(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )	70225-16-0
全氟己基磺酸与三乙胺络合物(1:1)(PFHxS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	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 <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	866621-50-3
全氟己基磺酸(4-甲基苯基)二苯硫鎓盐(PFHxS-S(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>7</sub> H <sub>7</sub> )	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 <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>10</sub> H <sub>9</sub> O <sub>2</sub> )	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 <sub>28</sub> H <sub>31</sub> O <sub>4</sub> )	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磷(PFHxS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	2310194-12-6
<b>EtFHxSAA, 及其盐</b>	
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	A1
六氯丁二烯	87-68-3	禁用	mg/kg	5	ND
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



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# 检测报告

编号: SHAEC26008402602

日期: 2026年04月08日

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检测项目	CAS No.	限值	单位	MDL	A1
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
结论					符合

**备注:**

- (1) 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。
- (2) 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)。

**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	A1
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	A1
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)		≤ 1000 mg/kg	到 2028.4.15



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## 检测报告

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	物质、混合物 和物品	≤ 1 mg/kg	2028.4.15 之后
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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。



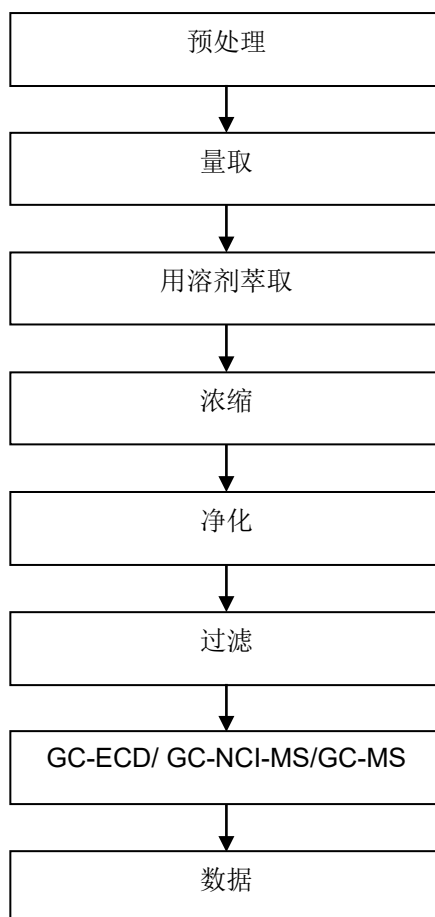
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## 氯化石蜡检测流程图



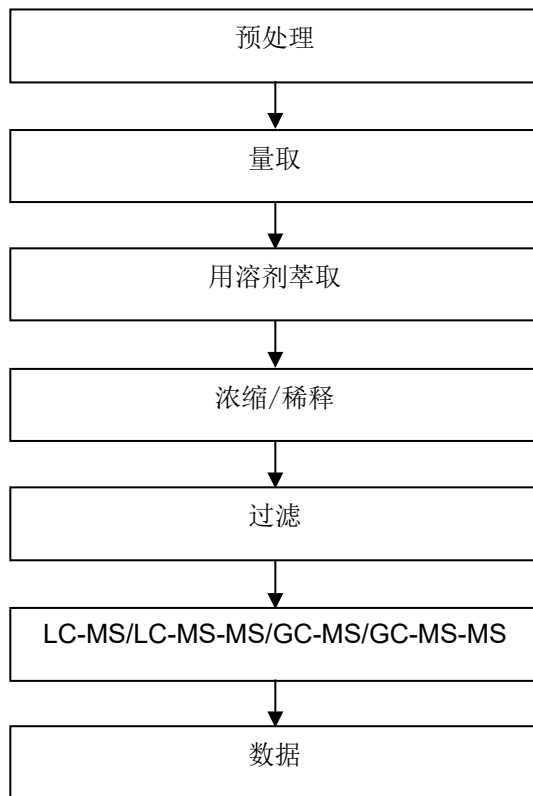
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## PFASs/ PFOS/PFOA 检测流程图



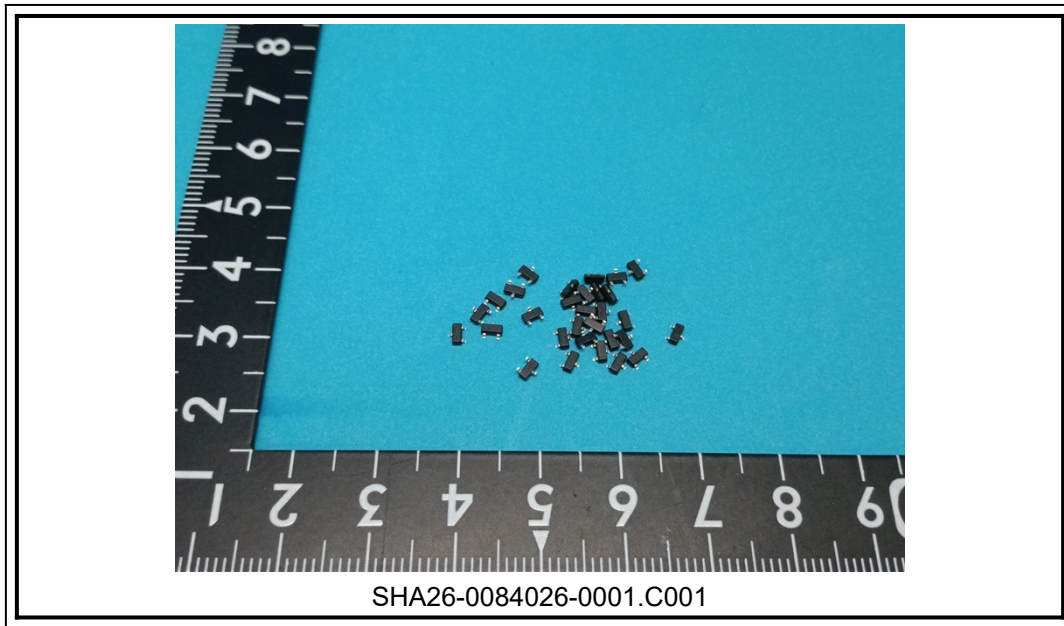
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