

## 检测报告

编号: SHAEC23012842502

日期: 2023年08月21日

第1页, 共7页

客户名称: 江苏捷捷微电子股份有限公司  
客户地址: 江苏省启东市经济开发区钱塘江路 3000 号

样品名称: TO-220A  
客户参考信息: 见附件  
以上样品及信息由客户提供。

SGS 工作编号: SHP23-010738  
样品接收时间: 2023年08月17日  
检测周期: 2023年08月17日 ~ 2023年08月21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 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

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倪俊

Tom Ni 倪俊  
批准签署人

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第2页, 共7页

## 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	SHA23-0128425-0001.C001	黑色固体

### 备注:

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

## 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: 参考 CEN/TS 15968:2010, 采用 LC-MS 或 LC-MS/MS 和 GC-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#	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	-	mg/kg	0.010	ND
全氟己烷磺酰胺 (PFHxSA)	41997-13-1	-	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	-	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	-	mg/kg	0.500	ND
PFHxS 相关化合物总和	-	1	mg/kg	-	ND
<b>结论</b>					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	生效日期
PFHxS 及其盐	物质或混合物, 物品	≤ 0.025 mg/kg	2023.8.28
PFHxS相关物质	物质或混合物, 物品	≤ 1 mg/kg (PFHxS相关物质总和)	2023.8.28
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)	2023.8.28

- (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 \(europa.eu\)](http://List of substances proposed as POPs - ECHA (europa.eu))

- (3) #盐/衍生物清单见附录 1

所列PFAS盐类结果来源于检测得出其母体的结果。



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附录 1

PFHxS及其盐 和衍生物	CAS No.
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(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 <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>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]乙炔基]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 (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> )	213740-81-9
全氟己基磺酸双(4-甲基苯基)苯基硫鎓盐(PFHxS-S(C <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	341548-85-4
全氟己基磺酸(硫代-2,4,1-亚苯基)双[二苯基]硫鎓盐 (1:2) (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
全氟己基磺酸镓 (3:1) (PFHxS-Ga)	341035-71-0
全氟己基磺酸钪 (3:1) (PFHxS-Sc)	350836-93-0
全氟己基磺酸钕 (3:1) (PFHxS-Nd)	41184-65-0
全氟己基磺酸钇(3:1) (PFHxS-Y)	41242-12-0
全氟己基磺酸铯(PFHxS-Cs)	92011-17-1
全氟己基磺酸锌(PFHxS-Zn)	70136-72-0
全氟己基磺酸双[4-(1,1-二甲基丙基)苯基]碘鎓盐(1:1)(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
全氟己基磺酸与2,2'-亚氨二乙醇络合物 (1:1)(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(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 (1:1)(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)二苯基硫鎓盐(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



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第4页, 共7页

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 (1:1)(PFHxS-SC <sub>2</sub> H <sub>3</sub> O <sub>4</sub> )	928049-42-7
全氟己基磺酰氟 (PFHxS-F)	423-50-7
全氟己基磺酰氯 (PFHxS-Cl)	55591-23-6
[4-[(2-甲基-1-氧代-2-丙烯基)氧基]苯基]二苯基硫与1,1,2,2,3,3,4,4,5,5,6,6,6-十三氟-1-己烷磺酸(1:1)的盐与2-乙基三环[3.3.1.1 <sup>3,7</sup> ]癸-2-基 2-甲基-2-丙烯酸酯、3-羟基三环[3.3.1.1 <sup>3,7</sup> ]癸-1-基 2-甲基-2-丙烯酸酯和四氢-2-氧代-3-咪喃基 2-甲基-2-丙烯酸酯的聚合物(PFHxS-磺酸酯聚合物)	911027-69-5

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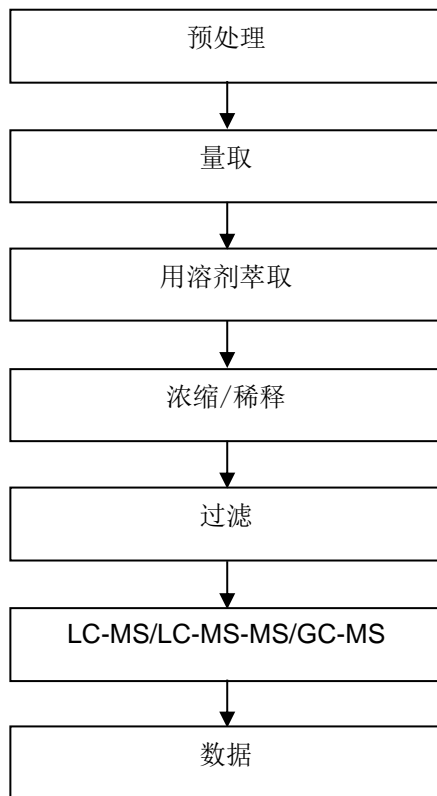
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## PFASs/ PFOS/PFOA 检测流程图



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附件:

402、603、2510、62mm、ABS、DBS、DFN0603-2L、DFN0603-2L、DFN1006-2L、DFN1006-2L、DFN1006-3L、DFN1006-3L、DFN10x15-5L、DFN10x15-5L-XX、DFN10x15-5L-XX、DFN1610-2L、DFN1610-2L、DFN1610-6L、DFN1610-6L、DFN2010-5L、DFN2010-5L、DFN2010-8L、DFN2010-8L、DFN2020-2L、DFN2020-2L、DFN2020-3L、DFN2020-3L、DFN2020-6L、DFN2020-6L、DFN2020-6L-XX、DFN2020-6L-XX、DFN2020-8L、DFN2510-10L、DFN2510-10L、DFN2626-10L、DFN2626-10L、DFN2x2-3L、DFN2x2-3L、DFN2x2-6L、DFN2x2-6L、DFN2x2-6L-D、DFN2x2-6L-XX、DFN3.0x3.0-8L、DFN3.0x3.0-8L-SD (Type, B) DFN3.3x3.3-8L-XX、DFN3.0x3.0-8L-XX、DFN3.3x3.3-8L、DFN3.3x3.3-8L、DFN3.3x3.3-8L (Type, B)、DFN3.3x3.3-8L-XX、DFN3020-10L、DFN3020-10L、DFN3030-8L、DFN3030-8L、DFN3030-8L-XX、DFN3030-8L-XX、DFN3030-12L、DFN3333-2L、DFN3333-2L、DFN3333-8L、DFN3333-8L、DFN3810-9L、DFN3810-9L、DFN3x3-8L-XX、DFN3x3-8L-XX、DFN4120-10L、DFN5060-8L、DFN5060-8L、DFN5060-8L-XX、DFN5060-8L-XX、DFN5515-18L、DFN5x6-8L、DFN5x6-8L(Dual)、DFN5x6-8L-XX、DFN5x6-8L-XX、DFN8080-2L、DFN8080-2L、DFN8080-4L、DFN8080-4L、DFN8x8-2L、DFN8x8-2L、DFN8x8-4L、DFN8x8-4L-XX、DIP-4、DO-15、DO-218AB、DO-27、DO-41、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、DriveJM-H2、EasyPack1B、EconoDual、FBP-02C-A、GBJ、GBL、GBU、ITO-247、ITO-247-XX、KBL、KBP、LSOP-4、LSOP-4、MBF、MBS、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L-XX、PDFN3x3-8L、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN3x3-8L-XX、PDFN5x6-8L、PDFN5x6-8L、PDFN5x6-8L-XX、PDFN5x6-8L-XX、PowerJE10x12、PowerJE10x12、PowerJE5x6、PowerJE5x6、PowerJE7x8、PowerJE7x8、PowerJE8x8、PowerJE8x8、PPTC、PPTC、R6、SGBJ、SGD0201、SGD0402、SMA、SMAF、SMB、SMBF、SMC、SMC-3、SMD-3225、SMD-4032、SMT、SMT-4、SMTF、SMTJ、SMTO-218Tab、SOD-123、SOD-123、SOD-123FL、SOD-123FL、SOD-123FLT、SOD-123FLT、SOD-323、SOD-323、SOD-323F、SOD-323FL、SOD-323FL、SOD-523、SOD-523、SOD-723、SOD-723、SOD-923、SOD-923、SOP-10、SOP-10、SOP-16、SOP-16、SOP-4、SOP-4、SOP-5、SOP-5、SOP-7、SOP-7、SOP-8、SOP-8、SOT-143、SOT-143-XX、SOT-143-XX、SOT-223、SOT-223、SOT-223-XX、SOT-223-XX、SOT-227、SOT-227、SOT-227-XX、SOT-227-XX、SOT-23、SOT-23、SOT-23-XX、SOT-23-XX、SOT-323、SOT-323-XX、SOT-323-XX、SOT-353、SOT-353-XX、SOT-353-XX、SOT-363、SOT-363-XX、SOT-363-XX、SOT-523、SOT-523-XX、SOT-523-XX、SOT-563、SOT-563-XX、SOT-563-XX、SOT-723、SOT-723-XX、SOT-723-XX、SOT-82、SOT-82、SOT-89、SOT-89-XX、SOT-89-XX、SOT-89-XX、SOT-89-XX、SSOP-16、SSOP-4、SSOP-4、STOLL7x8-5L、TO-126、TO-202、TO-202-XX、TO-220A、TO-220A-2D-XX、TO-220AB、TO-220A-XX、TO-220B、TO-220B-XX、TO-220C、TO-220C-XX、TO-220F、TO-220FA、TO-220FA-XX、TO-220FP、TO-220FP-XX、TO-220HF、TO-220H-XX、TO-220-XX、TO-247、TO-247-XX、TO-247iPS-2L、TO-247iPS-3L、TO-247J、TO-247J-XX、TO-247plus、TO-247S、TO-247S-XX、TO-247-XX、TO-251、TO-251L-XX、TO-251S、TO-251-XX、TO-252、TO-252-XX、TO-262、TO-262-XX、TO-263、TO-263-XX、TO-277B、TO-3P、TO-3P-3L、TO-3PF-3L、TO-92、TO-92CR、TO-92KR、TO-92KRF、TO-92UR、TO-92-XX、TOLL9.9x10.38-8L、TSSOP-8、TSSOP-8、WSOP-6



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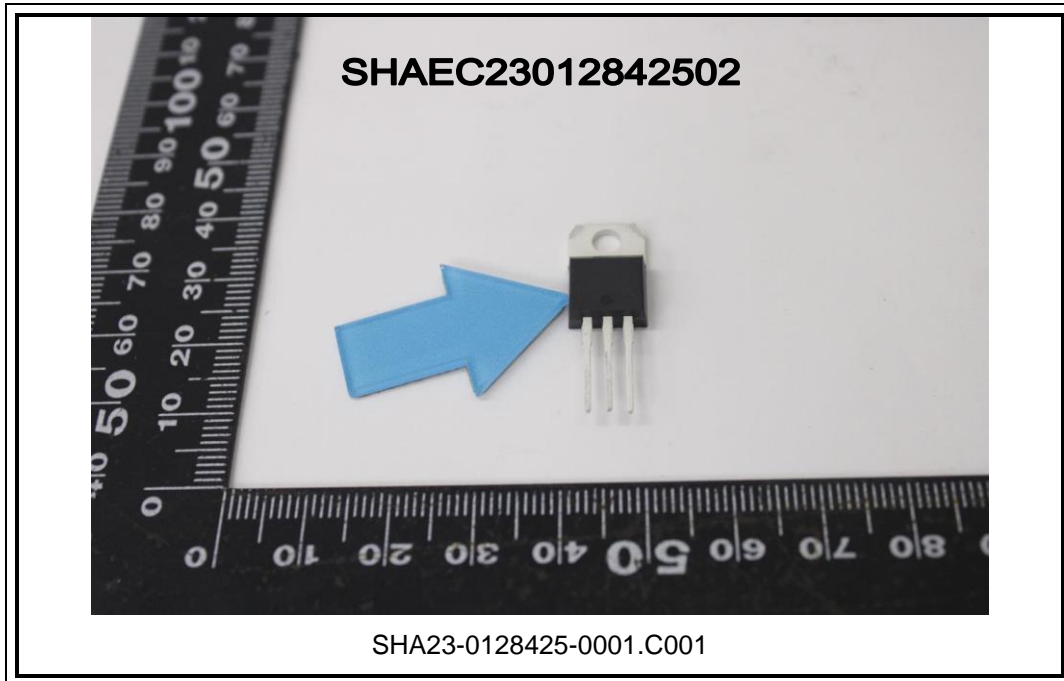
## 检测报告

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第7页, 共7页

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