

SGS

# 检测报告

编号: CANEC25025393832

日期: 2025 年 10 月 24 日

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客户名称: 深圳琦富瑞电子有限公司

客户地址: 深圳市光明新区公明街道楼村社区鲤鱼河工业园振兴路 5 号

样品名称: 氟塑料电线电缆

型号: UL1332 22AWG 黑色 UL1332 18AWG 白色 UL1332 26AWG 红色

客户参考信息: 请见附件

以上样品及信息由客户提供。

SGS 工作编号: SZP25-052390

样品接收时间: 2025年10月16日

检测周期: 2025年10月16日~2025年10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
PFOS, 及其盐和相关化合物, PFOA 及其盐	见检测结果

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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+A2+A3	CAN25-0253938-0002	黑色线皮 + 白色线皮 + 红色线皮

## 备注:

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

PFOS, 及其盐和相关化合物, PFOA 及其盐

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

检测项目	CAS No.	单位	MDL	A1+A2+A3
<b>PFOS, 及其盐</b>				
全氟辛烷磺酸 (PFOS), 及其盐 <sup>^</sup>	1763-23-1	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 <sup>^</sup>	754-91-6	mg/kg	0.010	ND
N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA), 及其盐 <sup>^</sup>	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 <sup>^</sup>	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 <sup>^</sup>	2991-50-6	mg/kg	0.010	ND
PFOS 相关化合物总和	-	mg/kg	-	ND
<b>PFOA, 及其盐</b>				
全氟辛酸 (PFOA), 及其盐 <sup>^</sup>	335-67-1	mg/kg	0.010	ND

## 备注:

- (1) <sup>^</sup>=物质是指附表中列出的盐/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

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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 <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-N(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)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𬭸 (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>	
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

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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铵 (PFOA-C <sub>11</sub> H <sub>26</sub> N)	927835-01-6
全氟辛酰氯 (PFOA-Cl)	335-64-8

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## 检测报告

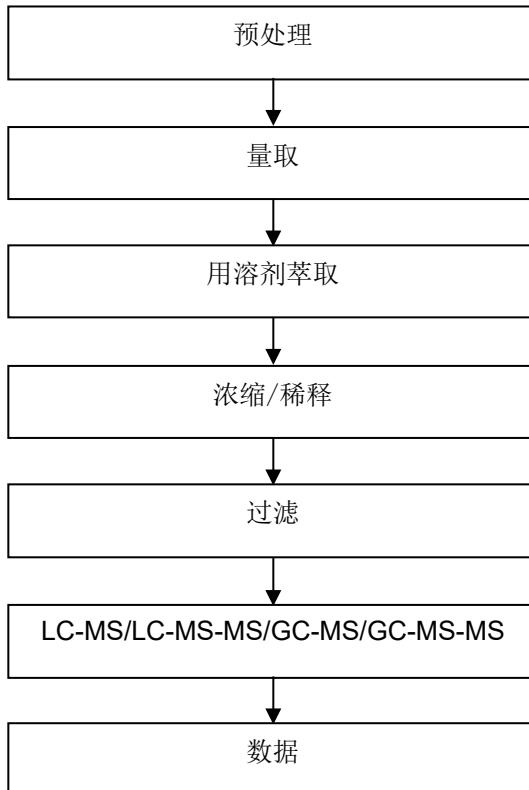
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## 附件

## PFASs/ PFOS/PFOA 检测流程图



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## 附件:

UL1108、1419、1458、1524、1559、1091、1588、10156、10142、10396、10485、1858、1675、1694、1726、1727、10326、10362、10371、1750、1756、1707、1708、1857、1859、1860、1882、1929、1930、1933、10011、10110、10129、10486、1757、1824、1835、1960、5311、10034、10051、10058、10287、1589、1709、10304、10409、10552、10554、1636、1653、1655、1656、1657、1659、1817、1710、10101、1199、1862、1863、1864、1517、1586、1609、1814、1513、1523、1558、1610、1643、1670、1671、1827、1829、1867、1868、1905、1988、1989、1990、3482、10371、1508、1658、1354、1212、1213、1286、1330、1331、1332、1333、1538、1716、1887、1901、1914、10007、10072、10111、10311、10491、1371、1375、1609、1394、1481、1512、1516、1828、1637、1721、1745、1832、1875、1894、1589、10503、1927、10020、10064、10069、10086、10088、10212、10102、10393、10245、10248、10298、10101、10109、10125、10126、10442、10447、10481、10499、10507、10518、1164、1180、1198、1199、10212、10277、10278、10279、10443、1570、1577、1723、1815、1659、1584、1911、10132、10241、10312、10518、1859、1644、1815、1858、3557、10464、10504、16878/4C、16878-4E、16878-6、16878-5、16878-11C、16878-12、81822/6A、22759/11F、22759-1、22759-2、22759-3、22759-7、22759-8、22759-9、22759-11、22759-12、22759-16、22759-18、22759-19、MIL-W-22759-22、22759-32、22759-33、22759-34、MIL-W-22759-41、QFR-0815,AF-250、AFP-250、QFR-CFN1、QFR-CFN2、QFR-CFN3、QFR-CKF1、QFR-CKF2、QFR-CKF3、AF-200、QFR-0921、VDE-R EG.Nr.8191、FLU7Y、VDE-REG.Nr.8192、MIL-W-22759-46、QFR-2412、MIL-W-22759-16、MIL-W-22759-35、MIL-W-16878-4C(NAVY)、VDE-REG.Nr.8193、FLR51Y、FLR5Y、FLR5Y-A、FLR6Y、FLR7Y、QFR-0919、QFR-0921、QFR-EFK1、QFR-EFK2、QFR-EFK3、QFR-EFN1、QFR-EFN2、QFR-EFN3、QFR-10364、QFR-11092、QFR-FK1、QFR-FK2、QFR-FK3、QFR-FN1、QFR-FN2、QFR-FN3、QFR-TFN6、QFR-TFNK、QFR-CFK1、QFR-CFK2、QFR-CFK3、QFR-EFK1、QFR-EFK2、QFR-EFK3、QFR-FK1、QFR-FK2、QFR-FK3、QFR-1018、QFR-11092、VDE-R EG.Nr.8194、VDE-REG.Nr.8195、VDE-REG.Nr.8196、VDE Fluorplastic wires、N6YAF、QB-F、E-200/TX/FEP 150V,300V,600V、E-200/TN/PFA 150V,300V,600V、E-250/TN/PTFE 150V,300V,600V、CQC Fluoroplastic wire and Fluoroplastic tube

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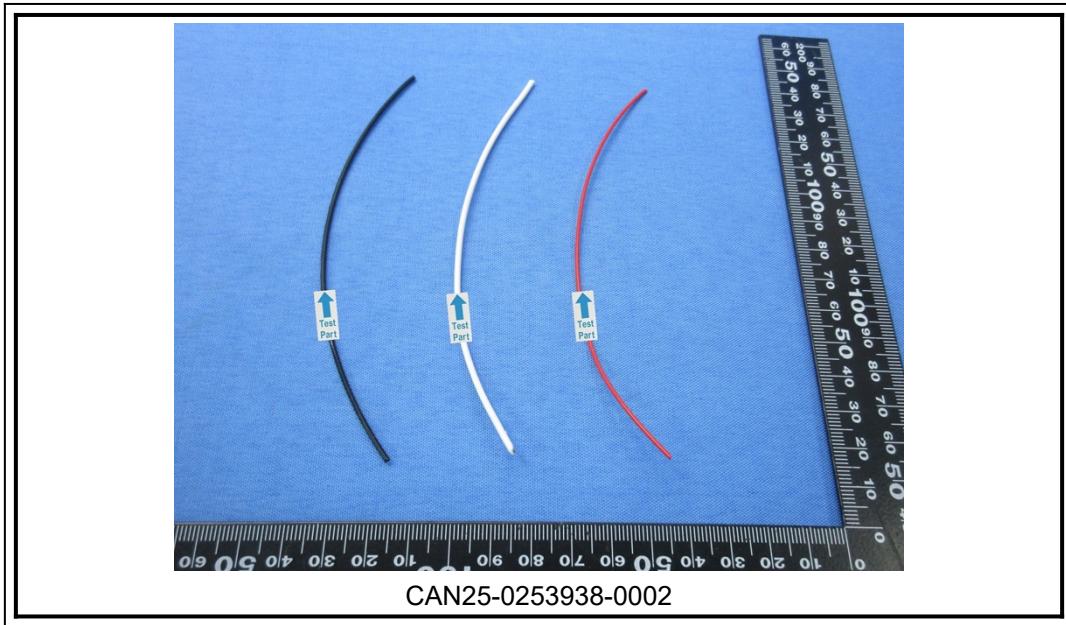
## 检测报告

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