

## 检测报告

编号: CANEC23017670708

日期: 2024年01月11日

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客户名称: 重庆平伟实业股份有限公司

客户地址: 重庆市梁平区工业园区

样品名称: 半导体器件

型号: TO-263

客户参考信息: 见备注

生产日期: 2023年12月生产

以上样品及信息由客户提供。

SGS 工作编号: CQP23-005925

样品接收时间: 2023年12月28日

检测周期: 2023年12月28日 ~ 2024年01月10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
四溴双酚 A (TBBP-A)	见检测结果
欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物	符合
富马酸二甲酯(DMF)	见检测结果
AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	见检测结果
元素分析	见检测结果
红磷	见检测结果
烷基酚聚氧乙烯醚(APEO)	见检测结果

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检测要求	结论
石棉	见检测结果
靶向 233 项全氟和多氟烷基化合物 (PFAS) 含量	见检测结果

## 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	A2	CAN23-0176707-0001.C002	黑色塑料壳

## 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

**四溴双酚 A (TBBP-A)**

检测方法: 参考 US EPA 3550C: 2007, 采用 GC-MS 或 LC-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A2
四溴双酚 A(TBBP-A)	79-94-7	mg/kg	5	ND

**欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物**

检测方法: 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2
按 TBT (三丁基锡) 换算回锡的含量	-	%	0.01	ND
按 TPhT (三苯基锡) 换算回锡的含量	-	%	0.01	ND
按 TCyT (三环己基锡) 换算回锡的含量	-	%	0.01	ND
按 TOT (三辛基锡) 换算回锡的含量	-	%	0.01	ND
按 TPT (三丙基锡) 换算回锡的含量	-	%	0.01	ND
按 TMT (三甲基锡) 换算回锡的含量	-	%	0.01	ND
三代有机锡化合物换算锡含量	0.1	%	-	ND
按 DBT (二丁基锡) 换算回锡的含量	0.1	%	0.01	ND
按 DOT (二辛基锡) 换算回锡的含量	0.1	%	0.01	ND
结论				符合

**富马酸二甲酯(DMF)**

检测方法: SGS 内部方法, 采用 GC-MS 进行分析。



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检测项目	CAS No.	单位	MDL	A2
富马酸二甲酯 (DMF)	624-49-7	mg/kg	0.1	ND

## 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	A2
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
蒽 (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)苝(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)苝 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
苝 (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), 苝 (PYR), 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

参数 单位: mg/kg	1类	2类		3类	
	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定义的玩具, 或-供3岁以下儿童 <sup>a,b</sup> 使用。	不属于第1类, 设计意图或可预见 <sup>d</sup> 与皮肤长期接触(超过30秒)或短期重复接触 <sup>e</sup> 的材料		不属于第1类和2类, 设计意图或可预见与皮肤短期接触(不超过30秒)材料	
		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



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苯并(k)荧蒽(BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽(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)芘(二萘嵌苯)(BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘(IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲(PHE), 芘(PYR), 蒽(ANT), 荧蒽(FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘(NAP)	< 1	< 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。

## 元素分析

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	A2
铍(Be)	mg/kg	5	ND
锑(Sb)	mg/kg	10	ND
三氧化二锑(Sb <sub>2</sub> O <sub>3</sub> ) ◆	mg/kg	12	ND

备注:

(1)◆三氧化二锑结果由锑含量换算得到。

## 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	A2
红磷	7723-14-0	mg/kg	500	ND

## 烷基酚聚氧乙烯醚(APEO)



SGS-CST Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Co., Ltd. Guangzhou Laboratory

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检测方法: SGS 内部方法 (GZTC CHEM-TOP-063-01, 参考 EPA 3550C:2007), 采用 LC-MS 进行分析。

检测项目	单位	MDL	A2
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	10	ND

### 石棉

检测方法: 参考 NIOSH 9000:2015 / NIOSH 9002:1994, 采用 XRD / PLM 进行分析。

检测项目	CAS No.	单位	MDL	A2
温石棉	12001-29-5 /132207-32-0	%(m/m)	0.1	阴性
铁镁闪石	12172-73-5	%(m/m)	0.1	阴性
兰闪石	12001-28-4	%(m/m)	0.1	阴性
直闪石	77536-67-5	%(m/m)	0.1	阴性
透闪石	77536-68-6	%(m/m)	0.1	阴性
阳起石	77536-66-4	%(m/m)	0.1	阴性

### 备注:

(1) 阴性=未检出石棉, 阳性=检出石棉

### 靶向 233 项全氟和多氟烷基化合物 (PFAS) 含量

检测方法: 优化的 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.	单位	MDL	A2
<b>PFOS 及其盐和相关物质</b>				
全氟辛烷磺酸 (PFOS), 及其盐 <sup>^</sup>	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), 及其盐 <sup>^</sup>	754-91-6	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)及其衍生物	-	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
<b>PFOA 相关物质</b>				
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS), 及其盐 <sup>^</sup>	39108-34-4	mg/kg	0.010	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	mg/kg	0.100	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	mg/kg	0.100	ND



检测项目	CAS No.	单位	MDL	A2
1H, 1H, 2H, 2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	mg/kg	0.100	ND
1H, 1H, 2H, 2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	mg/kg	0.100	ND
全氟辛基碘烷 (PFOI)	507-63-1	mg/kg	0.100	ND
2H,2H-全氟癸酸 (H <sub>2</sub> PFDA/8:2 FTCA), 及其盐 <sup>^</sup>	27854-31-5	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	mg/kg	0.100	ND
1-碘-1H, 1H, 2H, 2H-全氟癸烷 (8:2 FTI)	2043-53-0	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	mg/kg	0.100	ND
双(2-(全氟乙基)磷酸 (8:2diPAP), 及其盐 <sup>^</sup>	678-41-1	mg/kg	0.010	ND
2H,2H,3H,3H-全氟癸酸 (H <sub>4</sub> PFUnDA/ 8:3 FTCA), 及其盐 <sup>^</sup>	34598-33-9	mg/kg	0.010	ND
全氟辛基乙烯 (PFDE)	21652-58-4	mg/kg	0.100	ND
3-全氟庚基丙酸 (7:3 FTCA)	812-70-4	mg/kg	0.010	ND
PFOA 相关化合物总和	-	mg/kg	-	ND
<b>C9-C14 PFCA, 及其盐</b>				
全氟壬酸 (PFNA), 及其盐 <sup>^</sup>	375-95-1	mg/kg	0.010	ND
全氟癸酸 (PFDA), 及其盐 <sup>^</sup>	335-76-2	mg/kg	0.010	ND
全氟十一烷酸 (PFUnDA), 及其盐 <sup>^</sup>	2058-94-8	mg/kg	0.010	ND
全氟十二烷酸 (PFDoDA), 及其盐 <sup>^</sup>	307-55-1	mg/kg	0.010	ND
全氟十三烷酸 (PFTrDA), 及其盐 <sup>^</sup>	72629-94-8	mg/kg	0.010	ND
全氟十四烷酸 (PFTDA)	376-06-7	mg/kg	0.010	ND
全氟-3, 7-二甲基辛酸 (PF-3, 7-DMOA)	172155-07-6	mg/kg	0.010	ND
C9-C14 PFCA 及其盐总和	-	mg/kg	-	ND
<b>C9-C14 PFCA 相关物质</b>				
全氟癸烷磺酸 (PFDS), 及其盐 <sup>^</sup>	335-77-3	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟-1-十二醇 (10:2 FTOH)	865-86-1	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	mg/kg	0.100	ND
2-(全氟癸基)甲基丙烯酸乙酯 (10:2 FTMA)	2144-54-9	mg/kg	0.100	ND
1, 1, 2, 2-四氢全氟-1-十四醇 (12:2 FTOH)	39239-77-5	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟十二烷磺酸 (10:2 FTS)	120226-60-0	mg/kg	0.010	ND
全氟癸基乙基碘 (10:2 FTI)	2043-54-1	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟四环碘化物 (12:2 FTI)	30046-31-2	mg/kg	0.100	ND
全氟壬烷磺酸 (PFNS), 及其盐 <sup>^</sup>	68259-12-1	mg/kg	0.010	ND



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全氟十一烷磺酸 (PFUnDS)	749786-16-1 / 441296-91-9 (anion)	mg/kg	0.010	ND
全氟十二烷磺酸 (PFDoDS), 及其盐^	79780-39-5	mg/kg	0.010	ND
全氟十三烷磺酸 (PFTrDS), 及其盐^	791563-89-8	mg/kg	0.010	ND
双[2-(全氟癸基)乙基]磷酸盐 (10:2 diPAP)	1895-26-7	mg/kg	0.100	ND
1-碘全氟癸烷 (PFDI)	423-62-1	mg/kg	0.100	ND
全氟碘代十二烷 (PFDoDI)	307-60-8	mg/kg	0.100	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS), 及其盐^	39108-34-4	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	mg/kg	0.100	ND
1H, 1H, 2H, 2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	mg/kg	0.100	ND
2H,2H-全氟癸酸 (H <sub>2</sub> PFDA/8:2 FTCA), 及其盐^	27854-31-5	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	mg/kg	0.100	ND
1-碘-1H, 1H, 2H, 2H-全氟癸烷 (8:2 FTI)	2043-53-0	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	mg/kg	0.100	ND
双(2-(全氟乙基)磷酸 (8:2diPAP), 及其盐^	678-41-1	mg/kg	0.010	ND
2H,2H,3H,3H-全氟癸酸 (H <sub>4</sub> PFUnDA/ 8:3 FTCA), 及其盐^	34598-33-9	mg/kg	0.010	ND
全氟辛基乙烯 (PFDE)	21652-58-4	mg/kg	0.100	ND
C9-C14 PFCA 相关物质总和	-	mg/kg	-	ND
<b>PFHxS, 及其盐</b>				
全氟己基磺酸 (PFHxS), 及其盐^	355-46-4	mg/kg	0.010	ND
<b>PFHxS 相关物质</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]丙烯酸乙酯 (N-MeFHSEA)	67584-57-0	mg/kg	0.500	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	mg/kg	0.100	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	mg/kg	0.100	ND
十三氟-N-(2-羟基乙基)-N-甲基己烷磺酰胺 (MeFHxSE)	68555-75-9	mg/kg	0.010	ND
N-乙基-N-[(十三氟己基)磺酰基]甘氨酸	68957-32-4	mg/kg	0.010	ND
PFHxS 相关物质总和	-	mg/kg	-	ND
<b>其它 PFAS</b>				
全氟己酸 (PFHxA), 及其盐^	307-24-4	mg/kg	0.010	ND



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检测项目	CAS No.	单位	MDL	A2
全氟丁酸 (PFBA), 及其盐^	375-22-4	mg/kg	0.010	ND
全氟丁磺酸 (PFBS), 及其盐^	375-73-5	mg/kg	0.010	ND
全氟戊酸 (PFPeA), 及其盐^	2706-90-3	mg/kg	0.010	ND
全氟庚酸 (PFHpA), 及其盐^	375-85-9	mg/kg	0.010	ND
全氟庚烷磺酸 (PFHpS), 及其盐^	375-92-8	mg/kg	0.010	ND
7H-十二氟庚酸 (HPFHpA), 及其盐^	1546-95-8	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟辛磺酸 (6:2 FTS), 及其盐^	27619-97-2	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟辛基丙烯酸酯 (6:2 FTA)	17527-29-6	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟-1-己醇 (4:2 FTOH)	2043-47-2	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟-1-辛醇 (6:2 FTOH)	647-42-7	mg/kg	0.100	ND
2, 3, 3, 3-四氟-2-(七氟丙氧基)丙酸 (HFPO-DA), 及其盐^	13252-13-6	mg/kg	0.010	ND
1H, 1H, 2H, 2H-全氟己烷磺酸 (4:2 FTS), 及其盐^	757124-72-4	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
全氟戊磺酸 (PFPeS), 及其盐^	2706-91-4	mg/kg	0.010	ND
2-全氟己基乙酸 (6:2 FTCA)	53826-12-3	mg/kg	0.010	ND
3-全氟戊基丙酸 (5:3 FTCA)	914637-49-3	mg/kg	0.010	ND
全氟正十六酸 (PFHxDA)	67905-19-5	mg/kg	0.010	ND
全氟正十八酸 (PFODA)	16517-11-6	mg/kg	0.010	ND
1H, 1H, 2H, 2H-甲基丙烯酸全氟辛酯 (6:2 FTMA)	2144-53-8	mg/kg	0.100	ND
4, 8-二氧-3H-全氟壬酸 (ADONA)	919005-14-4	mg/kg	0.010	ND
全氟-3-甲氧基丙酸 (PFMPA)	377-73-1	mg/kg	0.010	ND
全氟-4-甲氧基丁酸 (PFMBA)	863090-89-5	mg/kg	0.010	ND
全氟-3, 6-二氧杂庚酸 (NFDHA)	151772-58-6	mg/kg	0.010	ND
9-氯十六氟-3-氧代壬烷-1-磺酸 (9Cl-PF3ONS)	756426-58-1	mg/kg	0.010	ND
11-氯二十碳氟-3-氧十一烷-1-磺酸 (11Cl-PF3OUdS)	763051-92-9	mg/kg	0.010	ND
全氟(2-乙氧基乙烷)磺酸 (PFEESA)	113507-82-7	mg/kg	0.010	ND
3-全氟丙基丙酸 (3:3 FTCA)	356-02-5	mg/kg	0.010	ND
全氟十五烷酸 (PFPeDA)	141074-63-7	mg/kg	0.100	ND
1H, 1H, 2H, 2H-全氟己基甲基丙烯酸酯 (4:2 FTMA)	1799-84-4	mg/kg	0.100	ND
2-(N-乙基全氟辛烷磺酰胺基)丙烯酸乙酯 (EtFOSAC)	423-82-5	mg/kg	0.100	ND
全氟辛基三乙氧基硅烷 (POTS)	51851-37-7	mg/kg	0.100	ND



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检测项目	CAS No.	单位	MDL	A2
1-碘-1H, 1H, 2H, 2H-全氟辛烷 (6:2 FTI)	2043-57-4	mg/kg	0.100	ND
九氟丁烷磺酰胺	30334-69-1	mg/kg	0.100	ND
N-(2-羟乙基)-N-甲基全氟丁烷磺酰胺 (PFBS-NC <sub>3</sub> H <sub>8</sub> O)	34454-97-2	mg/kg	0.010	ND
11H-全氟十一烷酸 (11H-PFUnDA), 及其盐 <sup>^</sup>	1765-48-6	mg/kg	0.100	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
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
全氟辛基磺酰氟 (PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁 (POSF-Mg)	91036-71-4
全氟辛烷磺酸哌啶	71463-74-6
<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
<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
<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
<b>H<sub>2</sub>PFDA/8:2 FTCA, 及其盐</b>	
2H,2H-全氟癸酸 (H <sub>2</sub> PFDA/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>	



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双(2-(全氟乙基))磷酸(8:2diPAP)	678-41-1
双(2-(全氟乙基))磷酸钠(8:2diPAP-Na)	114519-85-6
<b>H<sub>4</sub>PFUnDA/ 8:3 FTCA, 及其盐</b>	
2H,2H,3H,3H-全氟癸酸(H <sub>4</sub> PFUnDA/ 8:3 FTCA)	34598-33-9
2H,2H,3H,3H-全氟十一烷酸钾(H <sub>4</sub> PFUnDA-K)	83310-58-1
<b>PFNA, 及其盐</b>	
全氟壬酸(PFNA)	375-95-1
全氟壬酸钠(PFNA-Na)	21049-39-8
全氟壬酸铵(PFNA-NH <sub>4</sub> )	4149-60-4
全氟壬酸钾(PFNA-K)	21049-38-7
全氟壬酸锂(PFNA-Li)	60871-92-3
全氟壬酸银(PFNA-Ag)	7358-16-9
<b>PFDA, 及其盐</b>	
全氟癸酸(PFDA)	335-76-2
全氟癸酸钠(PFDA-Na)	3830-45-3
全氟癸酸铵(PFDA-NH <sub>4</sub> )	3108-42-7
九氟癸酸钾(PFDA-K)	51604-85-4
全氟癸酸银(PFDA-Ag)	5784-82-7
全氟癸酸锂(PFDA-Li)	84743-32-8
<b>PFUnDA, 及其盐</b>	
全氟十一烷酸(PFUnDA)	2058-94-8
全氟十一烷酸钠(PFUnDA-Na)	60871-96-7
全氟十一烷酸铵(PFUnDA-NH <sub>4</sub> )	4234-23-5
全氟十一烷酸钾(PFUnDA-K)	30377-53-8
全氟十一烷酸钙(PFUnDA-Ca)	97163-17-2
<b>PFDODA, 及其盐</b>	
全氟十二烷酸(PFDODA)	307-55-1
全氟十二烷酸铵(PFDODA-NH <sub>4</sub> )	3793-74-6
全氟十二烷酸钠(PFDODA-Na)	60872-01-7
<b>PFTrDA, 及其盐</b>	
全氟十三烷酸(PFTrDA)	72629-94-8
全氟十三烷酸铵(PFTrDA-NH <sub>4</sub> )	4288-72-6
<b>PFDS, 及其盐</b>	
全氟癸烷磺酸(PFDS)	335-77-3
全氟癸烷磺酸钠(PFDS-Na)	2806-15-7
全氟癸烷磺酸钾(PFDS-K)	2806-16-8
全氟癸基磺酸铵(PFDS-NH <sub>4</sub> )	67906-42-7
<b>PFNS, 及其盐</b>	
全氟壬烷磺酸(PFNS)	68259-12-1
全氟壬烷磺酸钠(PFNS-Na)	98789-57-2
全氟壬烷磺酸铵(PFNS-NH <sub>4</sub> )	17202-41-4
全氟磺酸钾(PFNS-K)	29359-39-5
<b>PFDODS, 及其盐</b>	



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全氟十二烷磺酸 (PFDoDS)	79780-39-5
全氟十二烷磺酸钠 (PFDoDS-Na)	1260224-54-1
<b>PFTrDS, 及其盐</b>	
全氟十三烷磺酸 (PFTrDS)	791563-89-8
全氟十三烷磺酸钠 (PFTrDS-Na)	174675-49-1
<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 (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 <sub>7</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	341548-85-4
全氟己基磺酸钐 (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-S3 (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



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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
<b>PFHxA, 及其盐&amp;衍生物</b>	
全氟己酸 (PFHxA)	307-24-4
全氟己酸铵 (APFHx)	21615-47-4
全氟己酸钠 (PFHxA-Na)	2923-26-4
全氟己酸钾 (PFHxA-K)	3109-94-2
全氟己酰氟 (PFHxA-F)	355-38-4
全氟己酸银 (PFHxA-Ag)	336-02-7
全氟己酸锂 (PFHxA-Li)	90430-61-8
<b>PFBA, 及其盐</b>	
全氟丁酸 (PFBA)	375-22-4
七氟丁酸铵 (PFBA-NH <sub>4</sub> )	10495-86-0
七氟丁酸钠 (PFBA-Na)	2218-54-4
七氟丁酸钾 (PFBA-K)	2966-54-3
七氟丁酸银 (PFBA-Ag)	3794-64-7
全氟丁酸锂 (PFBA-Li)	4146-76-3
<b>PFBS, 及其盐&amp;衍生物</b>	
全氟丁磺酸 (PFBS)	375-73-5
全氟丁基磺酸钾 (PFBS-K)	29420-49-3
全氟丁基磺酸水合物 (PFBS-H <sub>2</sub> O)	59933-66-3
九氟-1-丁烷磺酸锂 (PFBS-Li)	131651-65-5
全氟丁基磺酸三苯基硫盐 (TPS-PFBS)	144317-44-2
全氟丁基磺酸二甲基(苯基)硫 (PFBS-S (CH <sub>3</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> )	220133-51-7
全氟丁基磺酸四丁基磷 (PFBS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	220689-12-3
N,N,N-三乙基乙醇胺全氟丁基磺酸 (PFBS-N (C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )	25628-08-4
全氟丁基磺酰氟 (PFBS-F)	375-72-4
全氟丁磺酸吗啉 (PFBS-NC <sub>4</sub> H <sub>9</sub> O)	503155-89-3
全氟丁基磺酸镁 (PFBS-Mg)	507453-86-3
全氟丁基磺酸铵 (PFBS-NH <sub>4</sub> )	68259-10-9
1-(4-丁氧基-1-萘基)四氢噻吩全氟丁基磺酸盐 (PFBS-SC <sub>18</sub> H <sub>23</sub> O)	209482-18-8
全氟丁基磺酰氯 (PFBS-Cl)	2991-84-6
全氟丁基磺酸钠 (PFBS-Na)	60453-92-1
全氟-1-丁磺酸双(4-叔丁基苯基)碘鎓 (PFBS-I (C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> (C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> )	194999-85-4
1,1,2,2,3,4,4,4-一氟丁烷-1-磺酸与2,2'-亚氨基二乙醇的化合物 (1:1) (PFBS-NH (C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub> )	70225-18-2
<b>PFPeA, 及其盐</b>	
全氟戊酸 (PFPeA)	2706-90-3



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全氟戊酸钠 (PFPeA-Na)	2706-89-0
全氟戊酸钾 (PFPeA-K)	336-23-2
全氟戊酸锂 (PFPeA-Li)	198482-22-3
全氟戊酸银 (PFPeA-Ag)	2795-30-4
全氟戊酸铵 (PFPeA-NH <sub>4</sub> )	68259-11-0
<b>HPFHpA, 及其盐</b>	
7H-十二氟庚酸 (HPFHpA)	1546-95-8
7H-十二氟庚酸钠 (HPFHpA-Na)	2264-25-7
7H-十二氟庚酸铵 (HPFHpA-NH <sub>4</sub> )	376-34-1
<b>PFHpS, 及其盐</b>	
全氟庚烷磺酸 (PFHpS)	375-92-8
全氟庚基磺酸钠 (PFHpS-Na)	21934-50-9
全氟庚基磺酸钾 (PFHpS-K)	60270-55-5
全氟庚磺酸铵 (PFHpS-NH <sub>4</sub> )	68259-07-4
全氟庚烷磺酸锂 (PFHpS-Li)	117806-54-9
<b>PFHpA, 及其盐</b>	
全氟庚酸 (PFHpA)	375-85-9
全氟庚酸钠 (PFHpA-Na)	20109-59-5
全氟庚酸钾 (PFHpA-K)	21049-36-5
全氟庚酸铵 (PFHpA-NH <sub>4</sub> )	6130-43-4
全氟庚酸铯 (PFHpA-Cs)	171198-24-6
全氟庚酸银 (PFHpA-Ag)	424-05-5
全氟庚酸锂 (PFHpA-Li)	60871-90-1
<b>6:2 FTS, 及其盐</b>	
1H,1H,2H,2H-全氟辛磺酸 (6:2 FTS)	27619-97-2
1H,1H,2H,2H-全氟辛烷磺酸钠 (6:2 FTS-Na)	27619-94-9
1H,1H,2H,2H-全氟辛烷磺酸钾 (6:2 FTS-K)	59587-38-1
1H,1H,2H,2H-全氟辛烷磺酸铵 (6:2 FTS-NH <sub>4</sub> )	59587-39-2
1H,1H,2H,2H-全氟辛磺酸钡 (6:2 FTS-Ba)	1807944-82-6
<b>HFPO-DA, 及其盐&amp;衍生物</b>	
2,3,3,3-四氟-2-(七氟丙氧基)丙酸 (HFPO-DA)	13252-13-6
2,3,3,3-四氟-2-(七氟丙氧基)丙酸铵 (HFPO-DA-NH <sub>4</sub> )	62037-80-3
2,3,3,3-四氟-2-(七氟丙氧基)丙酸钾 (HFPO-DA-K)	67118-55-2
2,3,3,3-四氟-2-(七氟丙氧基)丙酸酰基氟化物 (HFPO-DA-F)	2062-98-8
<b>4:2 FTS, 及其盐</b>	
1H,1H,2H,2H-全氟己烷磺酸 (4:2 FTS)	757124-72-4
1H,1H,2H,2H-全氟己烷磺酸钠	27619-93-8
N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA)	2806-24-8
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA)	2991-50-6
<b>PFPeS, 及其盐</b>	
全氟戊磺酸 (PFPeS)	2706-91-4
全氟戊磺酸钠 (PFPeS-Na)	630402-22-1



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# 检测报告

编号: CANEC23017670708

日期: 2024年01月11日

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全氟戊磺酸钾 (PFPeS-K)	3872-25-1
全氟辛烷磺酸铵 (PFPeS-NH <sub>4</sub> )	68259-09-6
<b>11H-PFUnDA, 及其盐</b>	
11H-全氟十一烷酸 (11H-PFUnDA)	1765-48-6
11H-全氟十一烷酸钾 (11H-PFUnDA-K)	307-71-1
11H-全氟十一烷酸铵 (11H-PFUnDA-NH <sub>4</sub> )	5081-02-7

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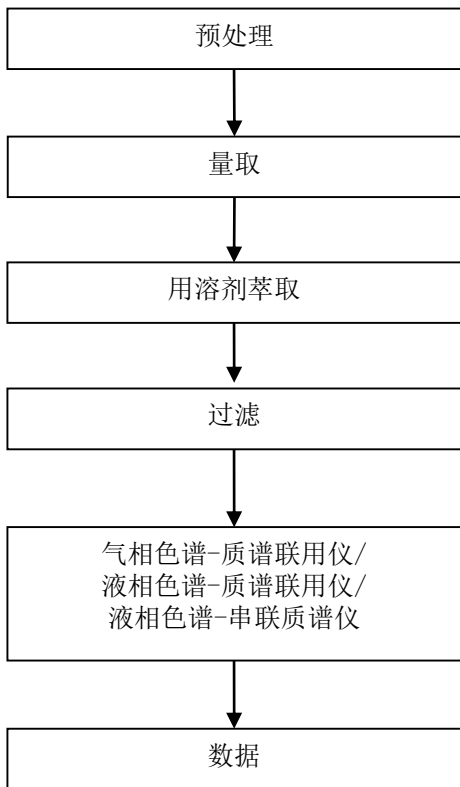
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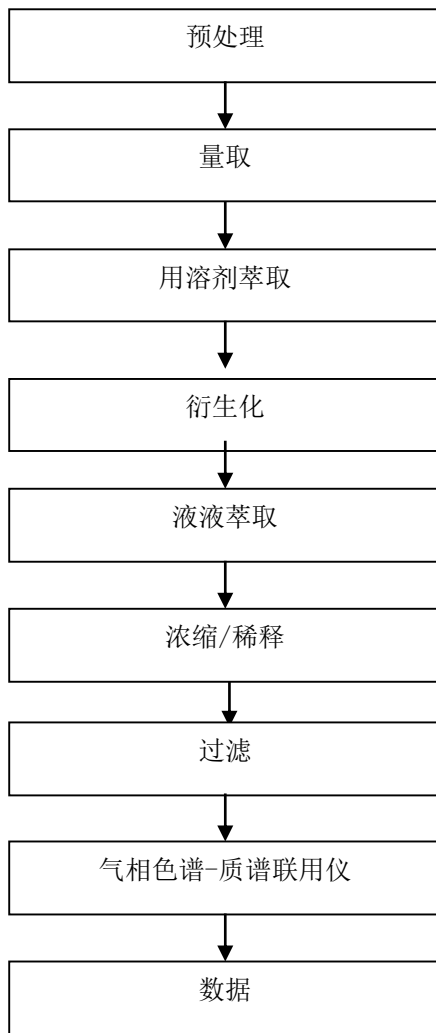
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附件

### TBBP-A 检测流程图

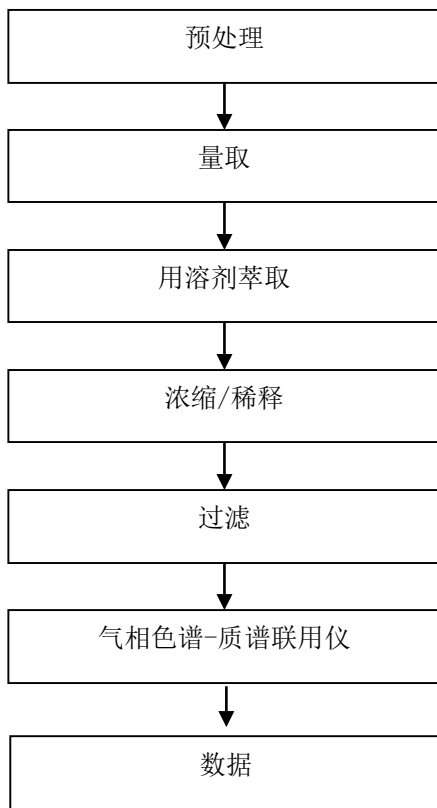


### 有机锡检测流程图

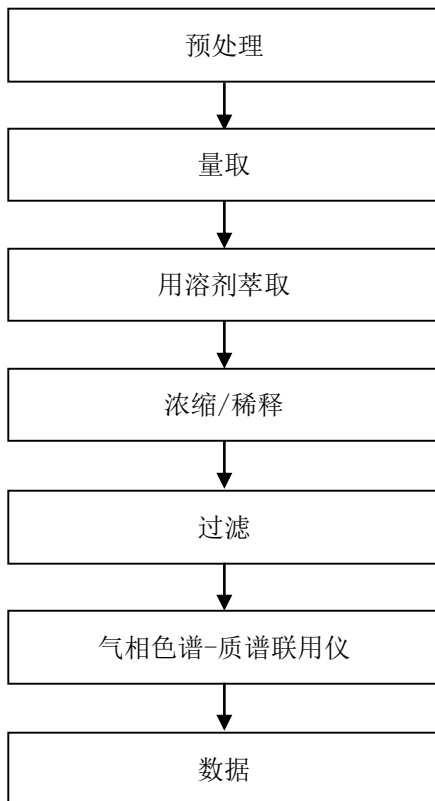




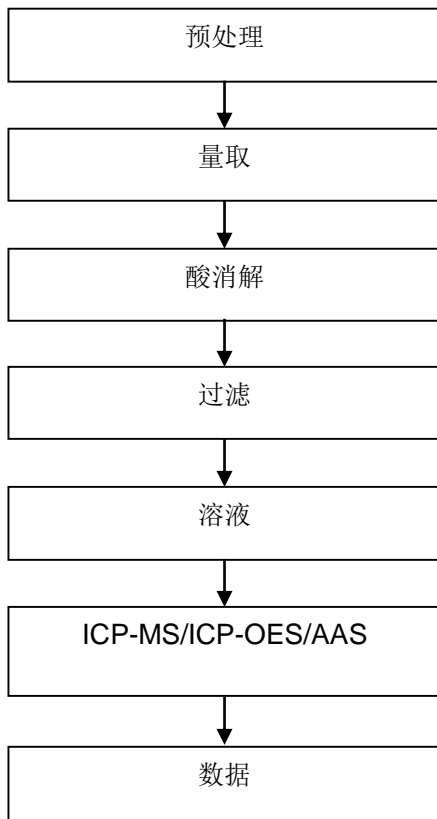
## DMF(富马酸二甲酯)检测流程图



### PAHs 检测流程图

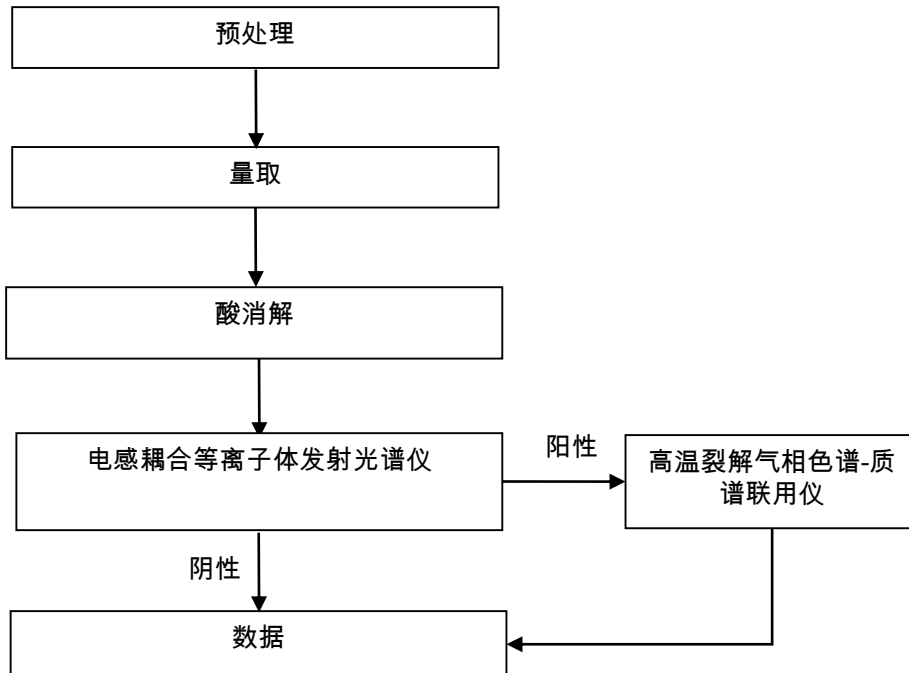


### 元素检测流程图



附件

### 红磷检测流程图



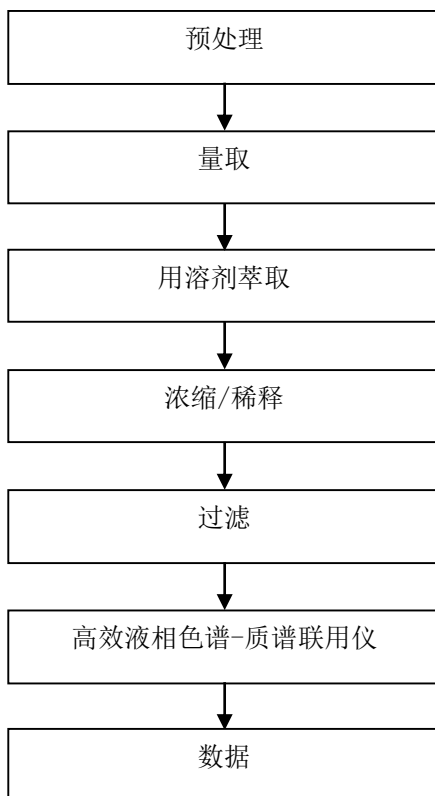
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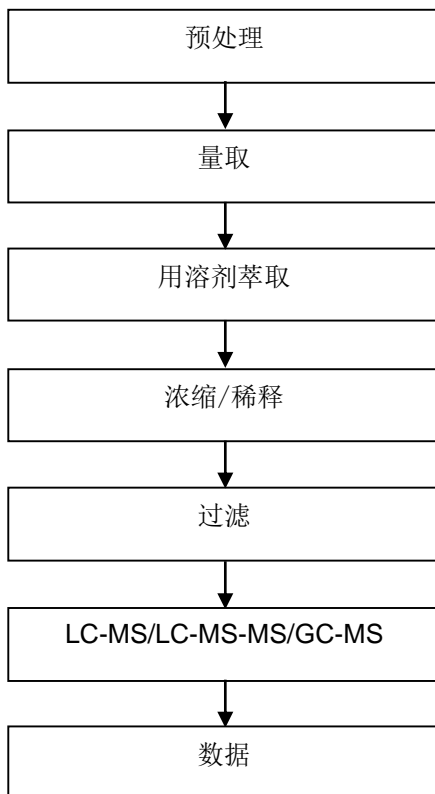
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## NP / OP / NPEOs / OPEOs 检测流程图



## PFASs/ PFOS/PFOA 检测流程图



## 检测报告

编号: CANEC23017670708

日期: 2024年01月11日

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附件:

备注:

Rectifier Bridge、Mosfet、Photovoltaic module, SOD-923,  
SOD-723, SC-89, SOT-416, SOT-23, SOT-323,  
SOT-252, SOT-223, A-405, DO-41(DO-204AL),  
DO-15(DO-204AC), DO-27 (DO-201AD), DO-27 (DO-201AE),  
HVM, HV, R-1, R-3, R-6, ITO-220AC/AB, TO-220AC/AB,  
WOB, RB-1, MBS, BR-15, RC-2, BRW, DB, DBS, GBJ,  
GBL, GBP, GBU, KBPC, KBP, KBU, KBL, MB, MM, RS,  
SMA(DO-214AC), SMB(DO-214AA), SMC(DO-214AB), SMF,  
PS-277, PS-277A, PS-277B, SOT-123, SOT-523, SOD-123,  
SOD-323, SOD-523, TO-92, TO-126, SOD-126, ABS, KBJ,  
LL-34, DO-35, DO-41, LL-41, SOD-123FL, TBF, TO-251,  
TO-252, TO-262, TO-263, ABM, MBF, SMBF, D3K, SMFL,  
TMBF, SOD-123HE, SOP-8, ABF, TO-220CB, TO-220MF, TO-247,  
DFN, SMFT, TO-220FS, TO-262CB, TO-263CB, SOD-123FT,  
TO-277, HGBU, HGBJ, RTMBF, TBM, DO-218AB, TO-3P,  
TOLL-1, TOLL-2, SOT-563、TO-220TF、TO-220NF、TO-220AD、  
TO-263-7L、TO-263-7H、DFN5×6Clip、DFN1006-2L、DFN1006-3L、  
DFN2×2-6L、PDFN5×6-8L、SMD-0.1 两脚、SMD-0.5 场效应管、  
SOT-23-3L、SOT-23-6L、SOT-363、SOT-89-3L、T0-252-2L、  
T0-258A、TO-247SM、BW88、XND38、TO-3PF、TOLL STOLL、  
SOP-8, SOD-123, SOD-323、SOD-523、SOD-323F、SOT-23、  
SOT-23-3L、SOT-23-6L、SOT-323、SOT-563、DFN3x3、DFN8x8、  
DFN1006-2L、DFN1006-3L、DFN5×6、SOD-323GW、SOT-523、  
SOT-723、SOT-89



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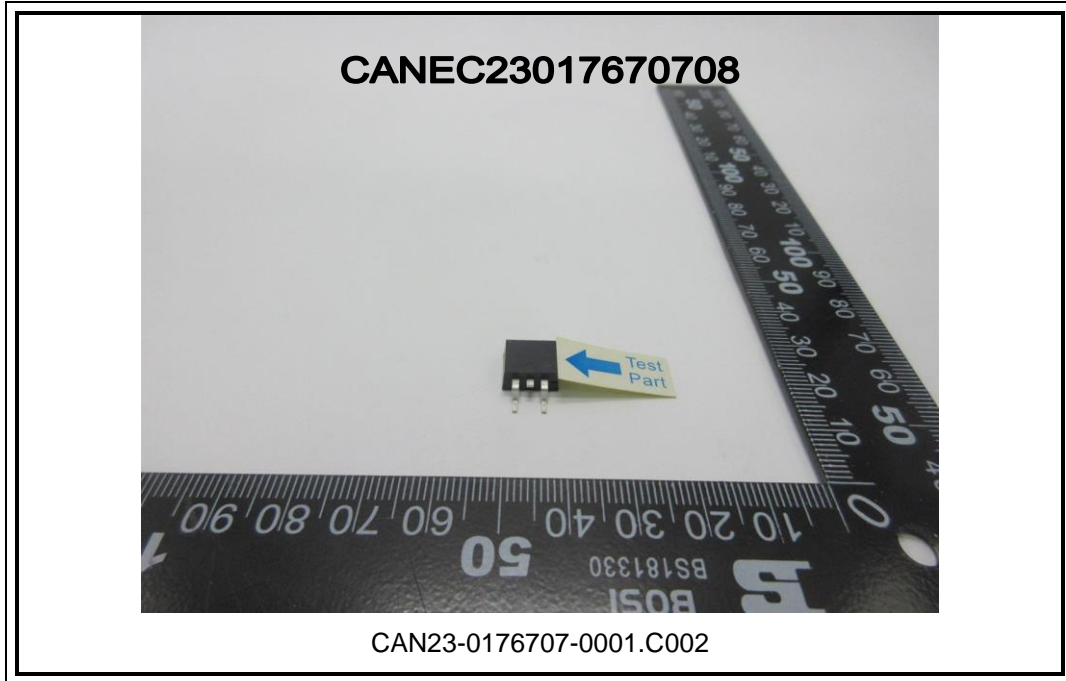
## 检测报告

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