

检测报告

编号: CANEC23009383008

日期: 2023年09月18日

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客户名称: 建滔积层板控股有限公司
客户地址: 香港新界沙田安耀街三号汇达大厦二十三楼

样品名称: KB-6167F
型号: KB-6167F
客户参考信息: KB-6168LE

以上样品及信息由客户提供。

SGS 工作编号: GZP23-011737
样品接收时间: 2023年09月05日
检测周期: 2023年09月05日 ~ 2023年09月15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 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合
221 项全氟和多氟烷基化合物 (PFAS) 含量	见检测结果
四溴双酚-A	见检测结果
中链氯化石蜡(C14-C17) (MCCPs)	见检测结果
多环芳香烃 (PAHs)	见检测结果
卤素	见检测结果
元素分析	见检测结果

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钟臻

Jany Zhong 钟臻
批准签署人

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检测要求	结论
红磷	见检测结果
多氯联苯(PCBs)	见检测结果
石棉	见检测结果
甲醛	见检测结果
六溴环十二烷(HBCDD)	见检测结果
邻苯二甲酸盐(或酯)	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	A1	CAN23-0093830-0001.C001	双面覆铜板

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 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	7
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列。
- (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

221 项全氟和多氟烷基化合物 (PFAS) 含量

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.	单位	MDL	A1
PFOS 及其盐和相关物质				
全氟辛烷磺酸 (PFOS) ^{备注(1)}	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) ^{备注(25)}	754-91-6	mg/kg	0.010	ND
全氟辛烷磺酸(PFOS)及其衍生物	-	mg/kg	-	ND
PFOA 及其盐				
全氟辛酸 (PFOA) ^{备注(2)}	335-67-1	mg/kg	0.010	ND
PFOA-相关物质				



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检测项目	CAS No.	单位	MDL	A1
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS) ^{备注(3)}	39108-34-4	mg/kg	0.010	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) ^{备注(3)}	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) ^{备注(3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA) ^{备注(3)}	1996-88-9	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	mg/kg	0.1	ND
2H,2H-全氟癸酸 (H2PFDA/8:2 FTCA) ^{备注(3), 备注(11)}	27854-31-5	mg/kg	0.010	ND
PFOA 相关化合物总和	-	mg/kg	-	ND
C9- C14 PFCA 及其盐				
全氟壬酸 (PFNA) ^{备注(4)}	375-95-1	mg/kg	0.010	ND
全氟癸酸 (PFDA) ^{备注(4)}	335-76-2	mg/kg	0.010	ND
全氟十一烷酸 (PFUnDA) ^{备注(22)}	2058-94-8	mg/kg	0.010	ND
全氟十二烷酸 (PFDoDA) ^{备注(4)}	307-55-1	mg/kg	0.010	ND
全氟十三烷酸 (PFTrDA) ^{备注(24)}	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
C9- C14 PFCA 相关物质				
全氟癸烷磺酸 (PFDS) ^{备注(10)}	335-77-3	mg/kg	0.010	ND
1H,1H,2H,2H-全氟-1-十二烷醇 (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基三乙氧基硅烷 (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.1	ND
2H,2H,3H,3H-全氟癸酸(H ₄ PFUnDA/ 8:3 FTCA) ^{备注(12)}	34598-33-9	mg/kg	0.010	ND
2-(全氟癸基)甲基丙烯酸乙酯 (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND
1,1,2,2-四氢全氟-1-十四醇 (12:2 FTOH)	39239-77-5	mg/kg	0.1	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	0.1	ND
1H,1H,2H,2H-全氟四环碘化物 (12:2 FTI)	30046-31-2	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS) ^{备注(3)}	39108-34-4	mg/kg	0.010	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) ^{备注(3)}	678-39-7	mg/kg	0.1	ND



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1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) ^{备注 (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA) ^{备注 (3)}	1996-88-9	mg/kg	0.1	ND
2H,2H-全氟癸酸 (H2PFDA/8:2 FTCA) ^{备注 (3), 备注 (11)}	27854-31-5	mg/kg	0.010	ND
C9-C14 PFCA 相关物质总和	-	mg/kg	-	ND
PFHxS 及其盐				
全氟己基磺酸 (PFHxS) ^{备注 (7)}	355-46-4	mg/kg	0.010	ND
PFHxS 相关物质				
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	0.5	ND
其他 PFAS				
全氟丁酸 (PFBA) ^{备注 (13)}	375-22-4	mg/kg	0.010	ND
全氟丁磺酸 (PFBS) ^{备注 (5)}	375-73-5	mg/kg	0.010	ND
N-(2-羟乙基)-N-甲基全氟丁烷磺酰胺 (PFBS-NC ₃ H ₈ O)	34454-97-2	mg/kg	0.010	ND
全氟戊酸 (PFPeA) ^{备注 (17)}	2706-90-3	mg/kg	0.010	ND
全氟己酸 (PFHxA) ^{备注 (6)}	307-24-4	mg/kg	0.010	ND
全氟庚酸 (PFHpA) ^{备注 (14)}	375-85-9	mg/kg	0.010	ND
全氟庚烷磺酸 (PFHpS) ^{备注 (8)}	375-92-8	mg/kg	0.010	ND
7H-十二氟庚酸 (7HPFHpA)	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-全氟辛磺酸(6:2 FTS) ^{备注 (26)}	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	0.1	ND
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸 (HFPO-DA) ^{备注 (9)}	13252-13-6	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) ^{备注 (18)}	2706-91-4	mg/kg	0.010	ND
全氟壬烷磺酸 (PFNS) ^{备注 (19)}	68259-12-1	mg/kg	0.010	ND
全氟十一烷磺酸 (PFUnDS) ^{备注 (16)}	749786-16-1	mg/kg	0.010	ND
全氟十二烷磺酸 (PFDoDS) ^{备注 (20)}	79780-39-5	mg/kg	0.010	ND
全氟十三烷磺酸 (PFTTrDS) ^{备注 (21)}	791563-89-8	mg/kg	0.010	ND
1H,1H,2H,2H-全氟己烷磺酸 (4:2 FTS)	757124-72-4	mg/kg	0.010	ND



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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
双(2-(全氟乙基)磷酸 (8:2diPAP) ^{备注 (15)}	678-41-1	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	0.1	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 (PFEEESA)	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
3-全氟庚基丙酸 (7:3 FTCA)	812-70-4	mg/kg	0.010	ND
全氟十五烷酸 (PFPeDA)	141074-63-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟己基甲基丙烯酸酯 (4:2 FTMA)	1799-84-4	mg/kg	0.1	ND
2-(N-乙基全氟辛烷磺酰胺基)丙烯酸乙酯 (EtFOSAC)	423-82-5	mg/kg	0.1	ND
全氟辛基乙烯 (PFDE)	21652-58-4	mg/kg	0.1	ND
全氟辛基三乙氧基硅烷 (POTS)	51851-37-7	mg/kg	0.1	ND
全氟碘代十二烷 (PFDoDI)	307-60-8	mg/kg	0.1	ND
1-碘全氟癸烷 (PFDI)	423-62-1	mg/kg	0.1	ND
11H-全氟十一烷酸 (11H-PFUnda) ^{备注 (23)}	1765-48-6	mg/kg	0.1	ND

备注:

(1) PFOS盐类/衍生物包括:

PFOS-K	CAS No.: 2795-39-3
PFOS-Li	CAS No.: 29457-72-5
PFOS-Na	CAS No.: 4021-47-0
PFOS-NH ₄	CAS No.: 29081-56-9
PFOS-NH ₂ (C ₂ H ₄ OH) ₂	CAS No.: 70225-14-8
PFOS-N(C ₂ H ₅) ₄	CAS No.: 56773-42-3
PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂	CAS No.: 251099-16-8
POSF	CAS No.: 307-35-7
POSF-Mg	CAS No.: 91036-71-4

(2) PFOA盐类/衍生物包括:

PFOA-Na	CAS No.: 335-95-5
PFOA-K	CAS No.: 2395-00-8
PFOA-Ag	CAS No.: 335-93-3
PFOA-F	CAS No.: 335-66-0



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Guangzhou Branch, SGS-CSTC Standards Technical Laboratory

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检测报告

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APFO	CAS No.: 3825-26-1
PFOA-Li	CAS No.: 17125-58-5
(3) PFAS中被分类为PFOA相关化合物和C9-C14 PFCA相关物质	
8:2 FTS盐类包括:	
8:2 FTS-K	CAS No.: 438237-73-1
8:2 FTS-NH ₄	CAS No.: 149724-40-3
8:2 FTS-Na	CAS No.: 27619-96-1
(4) PFNA盐类包括:	
PFNA-Na	CAS No.: 21049-39-8
PFNA-NH ₄	CAS No.: 4149-60-4
PFNA-K	CAS No.: 21049-38-7
PFNA-Li	CAS No.: 60871-92-3
PFNA-Ag	CAS No.: 7358-16-9
PFDA盐类包括:	
PFDA-Na	CAS No. 3830-45-3
PFDA-NH ₄	CAS No: 3108-42-7
PFDA-K	CAS No. 51604-85-4
PFDA-Ag	CAS No: 5784-82-7
PFDA-Li	CAS No: 84743-32-8
PFDoDA盐类包括:	
PFDoDA-NH ₄	CAS No: 3793-74-6
PFDoDA-Na	CAS No: 60872-01-7
(5) PFBS盐类/衍生物包括:	
PFBS-K	CAS No.: 29420-49-3
PFBS-H ₂ O	CAS No.: 59933-66-3
PFBS-Li	CAS No.: 131651-65-5
TPS-PFBS	CAS No.: 144317-44-2
PFBS-S(CH ₃) ₂ C ₆ H ₅	CAS No.: 220133-51-7
PFBS-P(C ₄ H ₉) ₄	CAS No.: 220689-12-3
PFBS-N(C ₂ H ₅) ₄	CAS No.: 25628-08-4
PFBS-F	CAS No.: 375-72-4
PFBS-NC ₄ H ₉ O	CAS No.: 503155-89-3
PFBS-Mg	CAS No.: 507453-86-3
PFBS-NH ₄	CAS No.: 68259-10-9
PFBS-SC ₁₈ H ₂₃ O	CAS No.: 209482-18-8
PFBS-Cl	CAS No.: 2991-84-6
PFBS-Na	CAS No.: 60453-92-1
PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 194999-85-4
PFBS-NH(C ₂ H ₅ O) ₂	CAS No.: 70225-18-2
(6) PFHxA盐类包括:	
APFHx	CAS No.: 21615-47-4
PFHxA-Na	CAS No.: 2923-26-4
PFHxA-K	CAS No.: 3109-94-2
PFHxA-F	CAS No.: 355-38-4
PFHxA-Ag	CAS No.: 336-02-7
PFHxA-Li	CAS No.: 90430-61-8
(7) PFHxS盐类包括:	
PFHxS-Na	CAS No.: 82382-12-5
PFHxS-K	CAS No.: 3871-99-6
PFHxS-Li	CAS No.: 55120-77-9
PFHxS-NH ₄	CAS No.: 68259-08-5



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PFHxS-BTPP	CAS No.: 1000597-52-3
PFHxS-N(C ₄ H ₉) ₄	CAS No.: 108427-54-9
PFHxS-N(C ₂ H ₅) ₄	CAS No.: 108427-55-0
PFHxS-NC ₄ H ₉	CAS No.: 1187817-57-7
PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄	CAS No.: 1310480-24-0
PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂	CAS No.: 1310480-27-3
PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂	CAS No.: 1310480-28-4
PFHxS-C ₄₂ H ₇₀ O ₃₅	CAS No.: 1329995-45-0
PFHxS-C ₄₈ H ₈₀ O ₄₀	CAS No.: 1329995-69-8
TPS-PFHxS	CAS No.: 144116-10-9
PFHxS-C ₄₄ H ₃₇ N ₂ O ₂	CAS No.: 1462414-59-0
PFHxS-I(C ₆ H ₅) ₂	CAS No.: 153443-35-7
PFHxS-TMA	CAS No.: 189274-31-5
PFHxS-NH ₂ (CH ₃) ₃	CAS No.: 202189-84-2
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 213740-81-9
PFHxS-Ga	CAS No.: 341035-71-0
PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅	CAS No.: 341548-85-4
PFHxS-Sc	CAS No.: 350836-93-0
PFHxS-Nd	CAS No.: 41184-65-0
PFHxS-Y	CAS No.: 41242-12-0
PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂	CAS No.: 421555-73-9
PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂	CAS No.: 421555-74-0
PFHxS-F	CAS No.: 423-50-7
PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃	CAS No.: 425670-70-8
PFHxS-Zn	CAS No.: 70136-72-0
PFHxS-NH(C ₂ H ₅ O) ₂	CAS No.: 70225-16-0
PFHxS-N(C ₂ H ₅) ₃	CAS No.: 72033-41-1
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 866621-50-3
PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇	CAS No.: 910606-39-2
PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂	CAS No.: 911027-68-4
PFHxS-Cs	CAS No.: 92011-17-1
PFHxS-SC ₂₈ H ₃₁ O ₄	CAS No.: 928049-42-7
PFHxS-Cl	CAS No.: 55591-23-6
PFHxS-磺酸酯聚合物	CAS No.: 911027-69-5
(8) PFHpS盐类包括:	
PFHpS-Na	CAS No.: 21934-50-9
PFHpS-K	CAS No.: 60270-55-5
PFHpS-NH ₄	CAS No.: 68259-07-4
PFHpS-Li	CAS No.: 117806-54-9
(9) HFPO-DA盐类包括:	
HFPO-DA-NH ₄	CAS No.: 62037-80-3
HFPO-DA-K	CAS No.: 67118-55-2
HFPO-DA-F	CAS No.: 2062-98-8
(10) PFDS盐类包括:	
PFDS-Na	CAS No.: 2806-15-7
PFDS-K	CAS No.: 2806-16-8
PFDS-NH ₄	CAS No.: 67906-42-7
(11) H ₂ PFDA / 8:2 FTCA盐类/衍生物包括:	
8:2 FTCA-P(C ₄ H ₉) ₄	CAS No.: 882489-14-7
(12) H ₄ PFUnDA / 8:3 FTCA盐类包括:	
H ₄ PFUnDA-K	CAS No.: 83310-58-1



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- (13)PFBA盐类包括:
 - PFBA-NH₄ CAS No.: 10495-86-0
 - PFBA-Na CAS No.: 2218-54-4
 - PFBA-K CAS No.: 2966-54-3
 - PFBA-Ag CAS No.: 3794-64-7
 - PFBA-Li CAS No.: 4146-76-3
- (14)PFHpA盐类包括:
 - PFHpA-Na CAS No.: 20109-59-5
 - PFHpA-K CAS No.: 21049-36-5
 - PFHpA-NH₄ CAS No.: 6130-43-4
 - PFHpA-Cs CAS No.: 171198-24-6
 - PFHpA-Ag CAS No.: 424-05-5
 - PFHpA-Li CAS No.: 60871-90-1
- (15)8:2diPAP盐类包括:
 - 8:2diPAP-Na CAS No.: 114519-85-6
- (16)PFUnDS盐类包括:
 - PFUnDS-Na CAS No.: 441296-91-9 (阴离子)
- (17)PFPeA盐类包括:
 - PFPeA-Na CAS No.: 2706-89-0
 - PFPeA-K CAS No.: 336-23-2
 - PFPeA-NH₄ CAS No.: 68259-11-0
 - PFPeA-Li CAS No.: 198482-22-3
 - PFPeA-Ag CAS No.: 2795-30-4
- (18)PFPeS盐类包括:
 - PFPeS-Na CAS No.: 630402-22-1
 - PFPeS-K CAS No.: 3872-25-1
 - PFPeS-NH₄ CAS No.: 68259-09-6
- (19)PFNS盐类包括:
 - PFNS-Na CAS No.: 98789-57-2
 - PFNS-NH₄ CAS No.: 17202-41-4
 - PFNS-K CAS No.: 29359-39-5
- (20)PFDoDS盐类包括:
 - PFDoDS-Na CAS No.: 1260224-54-1
- (21)PFTTrDS盐类包括:
 - PFTTrDS-Na CAS No.: 174675-49-1
- (22)PFUnDA盐类包括:
 - PFUnDA-Na CAS No.: 60871-96-7
 - PFUnDA-NH₄ CAS No.: 4234-23-5
 - PFUnDA-K CAS No.: 30377-53-8
- (23)11H-PFUnDA盐类包括:
 - 11H-PFUnDA-K CAS No.: 307-71-1
 - 11H-PFUnDA-NH₄ CAS No.: 5081-02-7
- (24)PFTTrDA盐类包括:
 - PFTTrDA-NH₄ CAS No.: 4288-72-6
- (25)PFOSA盐类包括:
 - PFOSA-Li CAS No.: 76752-79-9
- (26)6:2 FTS盐类包括:
 - 6:2 FTS-Na CAS No.: 27619-94-9
 - 6:2 FTS-K CAS No.: 59587-38-1
 - 6:2 FTS-NH₄ CAS No.: 59587-39-2



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四溴双酚-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	A1
四溴双酚 A(TBBP-A)	79-94-7	mg/kg	5	ND

中链氯化石蜡(C14-C17) (MCCPs)

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

检测项目	CAS No.	单位	MDL	A1
中链氯化石蜡(C ₁₄ -C ₁₇) (MCCPs)	85535-85-9 和其它	mg/kg	50	ND

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	A1
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
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (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), 芘 (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 ^{a,b} 使用。	不属于第1类, 设计意图或可预见 ^d 与皮肤长期接触(超过30秒)或短期重复接触 ^c 的材料		不属于第1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
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)花(二苯嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(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。

卤素

检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。



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检测报告

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检测项目	单位	MDL	A1
氟 (F)	mg/kg	20	1004
氯 (Cl)	mg/kg	50	152
溴 (Br)	mg/kg	50	23404
碘 (I)	mg/kg	50	ND

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	A1
砷(As)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND
镍(Ni)	mg/kg	5	ND
锑(Sb)	mg/kg	10	ND

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	A1
红磷	7723-14-0	mg/kg	500	ND

多氯联苯(PCBs)

检测方法: SGS 内部方法 (GZTC CHEM-TOP-032-01, 参考 EPA 8082A:2007), 采用 GC-ECD/GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
2,4,4'-三氯联苯(PCB28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-四氯联苯(PCB52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-五氯联苯(PCB101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-五氯联苯(PCB118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-六氯联苯(PCB138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-六氯联苯(PCB153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-七氯联苯(PCB180)	35065-29-3	mg/kg	0.5	ND

石棉

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



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Guangzhou Branch, Technical Services Laboratory

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检测报告

编号: CANEC23009383008

日期: 2023年09月18日

第13页, 共27页

检测项目	CAS No.	单位	MDL	A1
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

甲醛

检测方法: 参考 ISO 14184-1:2011, 采用 UV-Vis 进行分析。

检测项目	单位	MDL	A1
甲醛	mg/kg	16	ND

六溴环十二烷(HBCDD)

检测方法: 参考 IEC 62321-9:2021, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
六溴环十二烷(HBCDD)及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

邻苯二甲酸盐(或酯)

检测方法: 参考 IEC 62321-8:2017, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
邻苯二甲酸二丁酯 (DBP)	84-74-2	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	mg/kg	50	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
邻苯二甲酸二辛酯(DNOP)	117-84-0	mg/kg	50	ND
邻苯二甲酸二异癸酯(DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	mg/kg	50	ND



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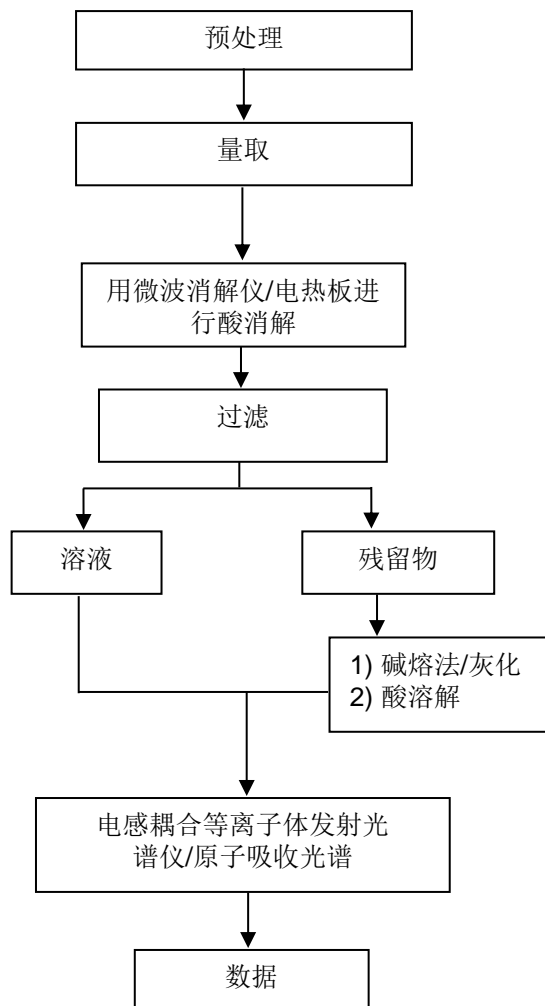
检测项目	CAS No.	单位	MDL	A1
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	mg/kg	50	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	mg/kg	50	ND
邻苯二甲酸二戊酯(DPENP/ DnPP)	131-18-0	mg/kg	50	ND
邻苯二甲酸二苯酯(DPhP)	84-62-8	mg/kg	50	ND
邻苯二甲酸双十一酯(DUDP)	3648-20-2	mg/kg	50	ND
邻苯二甲酸二甲酯(DMP)	131-11-3	mg/kg	50	ND
邻苯二甲酸二乙酯(DEP)	84-66-2	mg/kg	50	ND
邻苯二甲酸二丙酯(DPrP)	131-16-8	mg/kg	50	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	mg/kg	50	ND
邻苯二甲酸二苯甲酯(DBzP)	523-31-9	mg/kg	50	ND
邻苯二甲酸二壬酯(DNP)	84-76-4	mg/kg	50	ND
邻苯二甲酸二异辛酯(DIOP)	27554-26-3	mg/kg	50	ND
邻苯二甲酸二丙烯酯(DAP)	131-17-9	mg/kg	50	ND
1,2-苯二甲酸癸基辛基酯(nDnOP)	119-07-3	mg/kg	50	ND
邻苯二甲酸二癸酯(DnDP)	84-77-5	mg/kg	50	ND
邻苯二甲酸二异戊酯(DiPP)	605-50-5	mg/kg	50	ND
邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	mg/kg	50	ND
邻苯二甲酸二(2-丁氧基)乙酯(DBEP)	117-83-9	mg/kg	50	ND
邻苯二甲酸二(4-甲基-2-戊基)酯(BMPP)	146-50-9	mg/kg	50	ND
邻苯二甲酸二(2-乙氧基)乙酯(DEEP)	605-54-9	mg/kg	50	ND
邻苯二甲酸二 C6-C8 支链烷基酯(DIHP)	71888-89-6	mg/kg	50	ND
邻苯二甲酸二正庚酯(DnHpP)	3648-21-3	mg/kg	50	ND
邻苯二甲酸二(C7,C9,C11)烷基酯(DHNUP)	68515-42-4	mg/kg	50	ND
邻苯二甲酸二(支链与直链)戊基酯(DPP)	84777-06-0	mg/kg	50	ND
邻苯二甲酸双十三烷基酯(DTDP)	119-06-2	mg/kg	50	ND
邻苯二甲酸二(支链与直链)己基酯(DHxP)	68515-50-4	mg/kg	50	ND
己二酸二(2-乙基己基)酯(DEHA)	103-23-1	mg/kg	50	ND
对苯二甲酸二(2-乙基己基)酯(DOTP)	6422-86-2	mg/kg	50	ND
己二酸二异壬酯(DINA)	33703-08-1	mg/kg	50	ND
邻苯二甲酸二(2-丙基庚基)酯(DPHpP)	53306-54-0	mg/kg	50	ND
乙酰柠檬酸三丁酯(ATBC)	77-90-7	mg/kg	50	ND
偏苯三酸三(2-乙基己基)酯(TOTM)	3319-31-1	mg/kg	50	ND

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。
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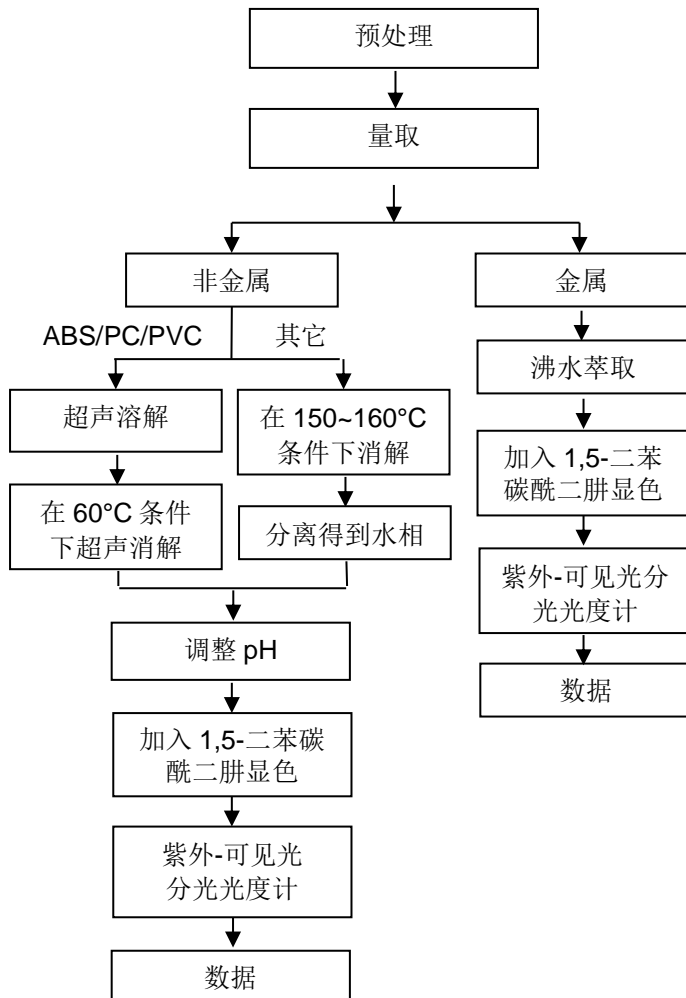


元素检测流程图

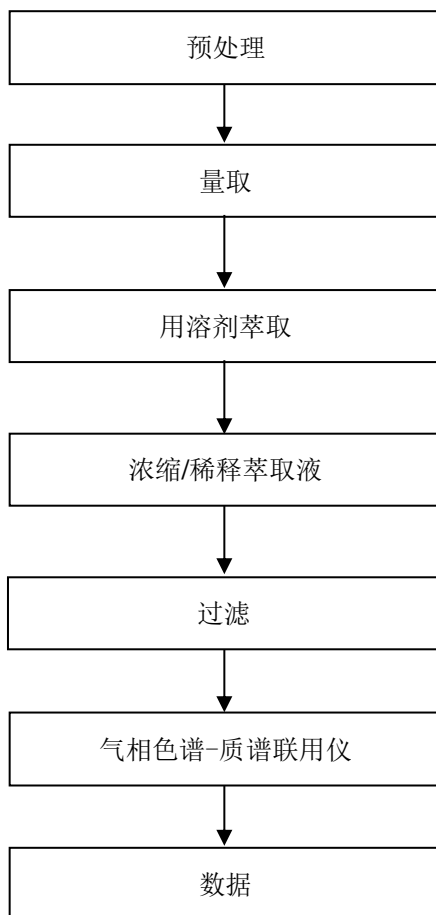
样品按照下述流程被完全消解



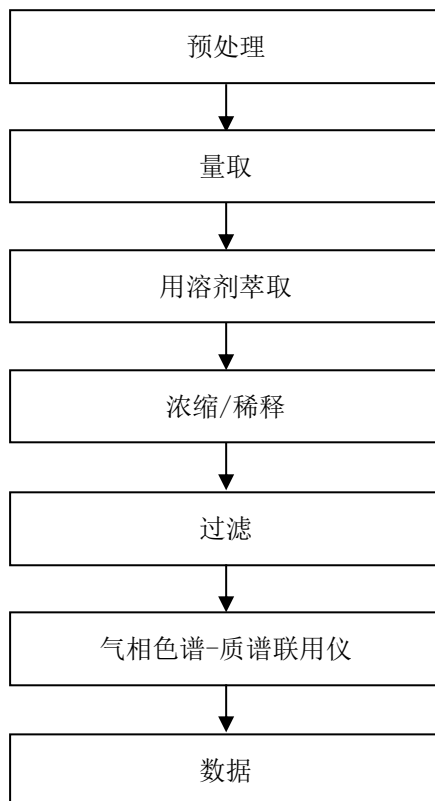
六价铬检测流程图



PBBs/PBDEs 检测流程图



Phthalates 检测流程图



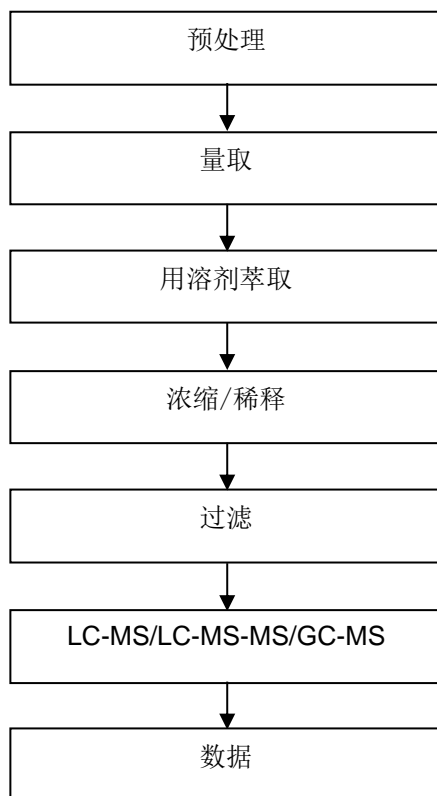
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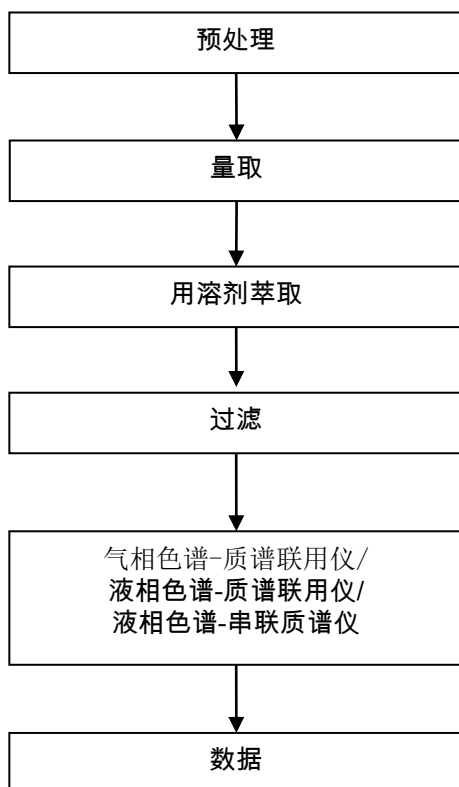
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PFASs/ PFOS/PFOA 检测流程图

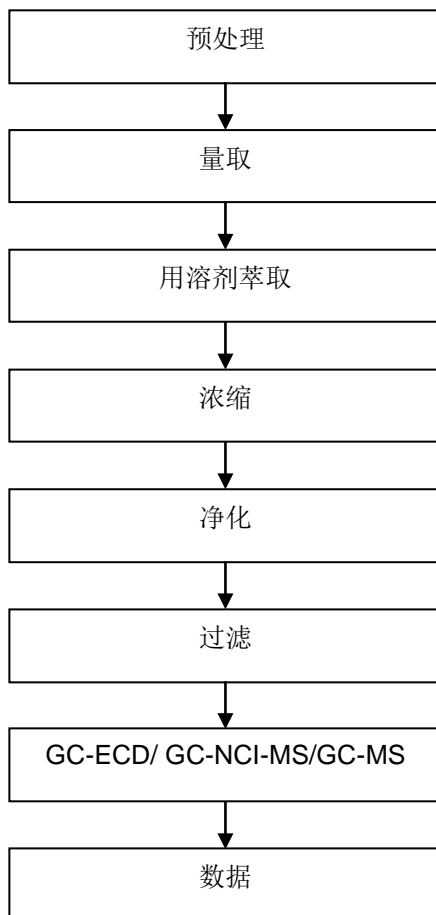


附件

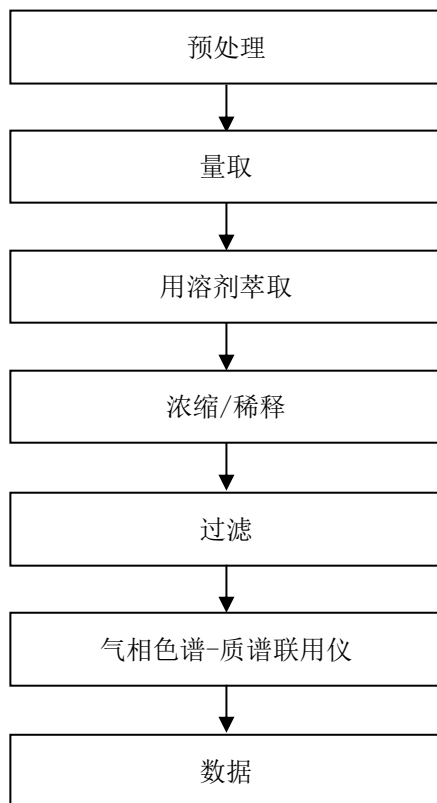
TBBP-A 检测流程图



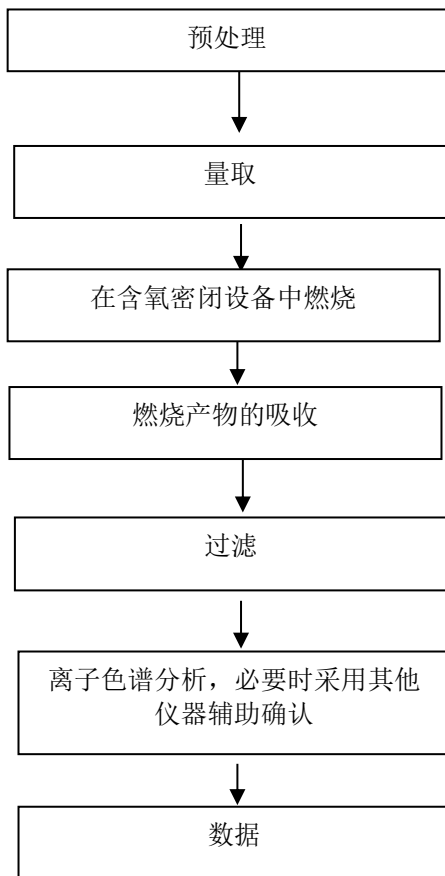
氯化石蜡检测流程图



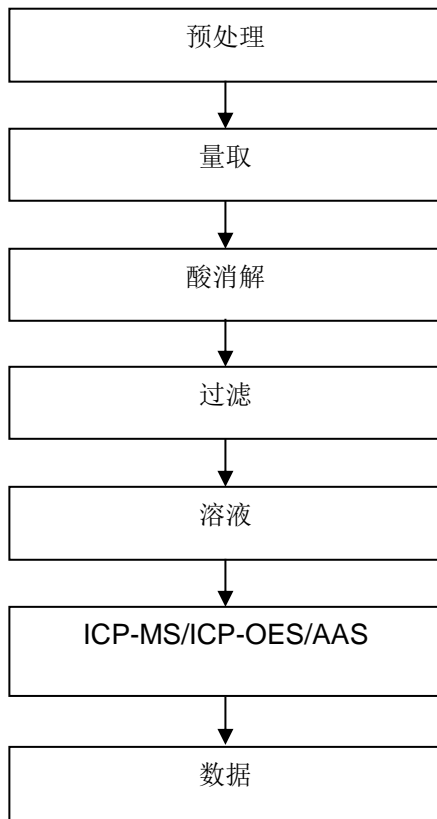
PAHs 检测流程图



卤素检测流程图

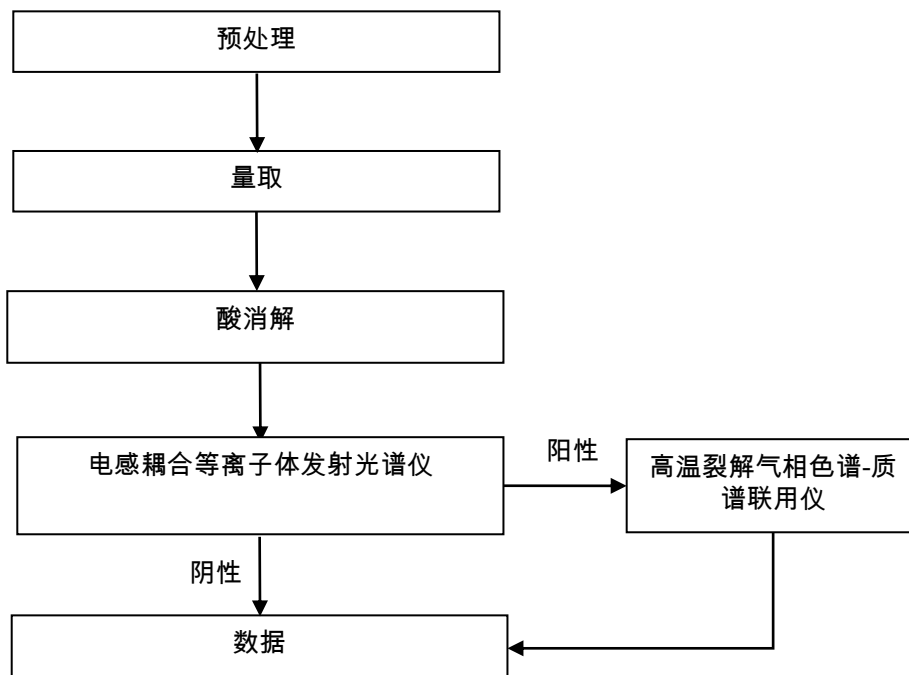


元素检测流程图

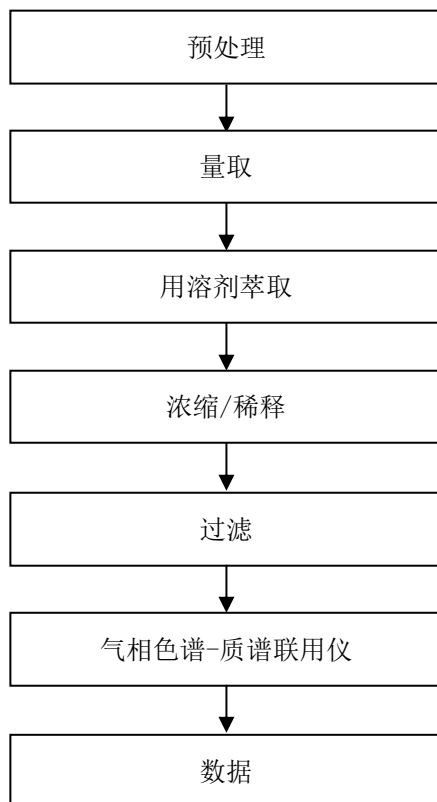


附件

红磷检测流程图



HBCDD 检测流程图



检测报告

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