

测试报告

No. SHAEC1625278304 A01

日期: 2016年11月24日 第1页,共21页

苏州兴瑞贵金属材料有限公司
江苏省苏州吴中经济开发区兴南路一号

此报告替代原来编号为SHAEC1625278302, 日期为2016/11/23的报告

以下测试之样品是由申请者所提供及确认: 氰化亚金钾

SGS工作编号: SP16-040738 - SH

成分: 黄金

样品接收日期: 2016年11月18日

测试周期: 2016年11月18日 - 2016年11月23日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)的测试结果不超过欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

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授权签名

Helen Liu 刘海鹏
批准签署人

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日期: 2016年11月24日 第2页,共21页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA16-252783.001	白色颗粒

备注:

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

RoHS 指令2011/65/EU附录II的修正指令(EU) 2015/863

- 测试方法:
- (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
 - (2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
 - (3) 参考IEC 62321-4:2013, 用ICP-OES测定汞的含量
 - (4) 参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量
 - (5) 参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量

测试项目	限值	单位	MDL	001
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND



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测试报告

No. SHAEC1625278304 A01

日期: 2016年11月24日 第3页,共21页

测试项目	限值	单位	MDL	001
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863 附录II限值中还包括邻苯二甲酸酯BBP, DBP, DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含量不得超过0.1%。
- (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。
- (4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。
- (5) DEHP、BBP 和 DBP的限制不适用于玩具产品, 因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP、BBP 和 DBP含量进行了限制。

卤素

测试方法: 参照EN 14582:2007方法测定, 采用IC进行分析。

测试项目	单位	MDL	001
氟(F)	mg/kg	50	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析。



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测试项目	单位	MDL	001
铍 (Be)	mg/kg	5	ND
锑 (Sb)	mg/kg	10	ND

多氯萘(PCNs)

测试方法: 参照US EPA 8081B: 2007 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
2-一氯萘	mg/kg	5	ND
1,4-二氯萘	mg/kg	5	ND
1,5-二氯萘	mg/kg	5	ND
1,2-二氯萘	mg/kg	5	ND
1,8-二氯萘	mg/kg	5	ND
1,2,3-三氯萘	mg/kg	5	ND
1,2,3,4-四氯萘	mg/kg	5	ND
1,2,3,4,6-五氯萘	mg/kg	5	ND
八氯萘	mg/kg	5	ND
1-氯萘	mg/kg	5	ND

短链氯化石蜡(SCCP)(C₁₀-C₁₃)

测试方法: 参照ISO 18219: 2015 方法测定, 采用GC-NCI-MS进行分析.

测试项目	单位	MDL	001
短链氯化石蜡(SCCP) (C ₁₀ -C ₁₃)	mg/kg	50	ND

六溴环十二烷(HBCDD)

测试方法: 参照US EPA 3550C: 2007 方法测定, 采用GC-MS进行分析.



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测试项目	CAS NO.	单位	MDL	001
六溴环十二烷 (HBCDD)	25637-99-4, 3194- 55-6	mg/kg	10	ND

四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
四溴双酚-A	mg/kg	10	ND

聚氯乙烯(PVC)

测试方法: 以内定方法(SHTC-CHEM-SOP-115-T) 测定, 采用FTIR/HATR进行分析.

测试项目	CAS NO.	单位	MDL	001
聚氯乙烯(PVC)	9002-86-2	-	-	阴性

备注:

(1) 阴性=未检测到,阳性=已检测到

多氯三联苯(PCTs)

测试方法: 参照US EPA 8082A: 2007 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND
Aroclor 5460	mg/kg	5	ND

邻苯二甲酸盐(或酯)

测试方法: 参考IEC 62321-8 Ed.1.0 (111/321/CD), 用GC-MS测定邻苯二甲酸酯的含量

测试项目	CAS NO.	单位	MDL	001
邻苯二甲酸二丁酯 (DBP)	84-74-2	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	mg/kg	50	ND



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日期: 2016年11月24日

第6页,共21页

测试项目	CAS NO.	单位	MDL	001
邻苯二甲酸丁苄酯 (BBP)	85-68-7	mg/kg	50	ND
邻苯二甲酸(2-乙基己基)酯 (DEHP)	117-81-7	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
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	mg/kg	50	ND
邻苯二甲酸二戊酯(DnPP)	131-18-0	mg/kg	50	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	mg/kg	50	ND
邻苯二甲酸二苯酯(DPhP)	84-62-8	mg/kg	50	ND
邻苯二甲酸二苯甲酯(DBzP)	523-31-9	mg/kg	50	ND
邻苯二甲酸二异辛酯(DIOP)	27554-26-3	mg/kg	50	ND
邻苯二甲酸二丙酯(DPrP)	131-16-8	mg/kg	50	ND
邻苯二甲酸二壬酯(DNP)	84-76-4	mg/kg	50	ND
邻苯二甲酸二正己酯(DHP, DHxP)	84-75-3	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C6-C8支链烷基酯(DIHP)	71888-89-6	mg/kg	50	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	mg/kg	50	ND

全氟辛烷磺酸 (PFOS)和全氟辛酸(PFOA)

测试方法: 参考 CEN/TS 15968: 2010方法, 采用LC-MS进行分析。

测试项目	限值	单位	MDL	001
全氟辛烷磺酸 (PFOS)^	1000	mg/kg	10	ND
全氟辛酸(PFOA)	-	mg/kg	10	ND

备注:

- (1) 最大允许限制引用自(EC) No. 850/2004的修订指令欧盟决议(EU) No. 757/2010.
- (2) ^= PFOS包含全氟辛烷磺酸(PFOS), 全氟辛基磺酰胺(PFOA), 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE), N-甲基全氟辛烷磺酰胺(MeFOA), N-乙基全氟辛烷磺酰胺(EtFOA)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。

多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2014:01 PAK方法测试, 采用 GC-MS进行分析。



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测试项目	单位	MDL	001
苯并(a)芘 (BaP)	mg/kg	0.1	ND
苯并(e)芘 (BeP)	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	mg/kg	0.1	ND
屈 (CHR)	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	mg/kg	0.1	ND
苯并(g,h,i)芘(二苯嵌苯) (BPE)	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	mg/kg	0.1	ND
萘烯(ANY)	mg/kg	0.1	ND
芘(萘嵌戊烷) (ANA)	mg/kg	0.1	ND
芴 (FLU)	mg/kg	0.1	ND
菲 (PHE)	mg/kg	0.1	ND
芘 (PYR)	mg/kg	0.1	ND
蒽 (ANT)	mg/kg	0.1	ND
荧蒽 (FLT)	mg/kg	0.1	ND
7项多环芳香烃总和[萘烯(ANY),芘(萘嵌戊烷) (ANA),芴 (FLU),菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)]	mg/kg	-	ND
萘 (NAP)	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	mg/kg	0.1	ND
18项多环芳香烃总和	mg/kg	-	ND



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AFPS(德国产品安全委员会):GS 认证对多环芳香烃的要求

参数	1 类	2 类		3 类	
		设计意图为放入口中的材料或者玩具上与皮肤接触的材料(接触时间大于30秒).	未在 1 类规定中涵盖的材料,且可能与皮肤接触时间大于 30 秒的材料 (长时间接触皮肤)或频繁接触皮肤.		未在 1 和 2 类规定中涵盖的材料,且可能与皮肤接触的少于 30 秒的材料(短期接触皮肤)
		2009/48/EC 中适用的玩具	产品安全法涉及的其他产品	2009/48/EC中适用的玩具	产品安全法涉及的其他产品
苯并(a)芘 (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
屈 (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)花(二苯并(a,h)蒽) (BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
萘烯(ANY), 萘(蒽嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)之和 mg/kg	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP) mg/kg	< 1	< 2		< 10	
18 PAH之和	<1	< 5	< 10	< 20	< 50

多氯联苯(PCBs)

测试方法: 参照US EPA 8082A: 2007 方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	001
2,4,4'-三氯联苯 (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-四氯联苯 (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-五氯联苯(PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-五氯联苯(PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-六氯联苯 (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-六氯联苯 (PCB 153)	35065-27-1	mg/kg	0.5	ND



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测试报告

No. SHAEC1625278304 A01

日期: 2016年11月24日

第9页,共21页

测试项目	CAS NO.	单位	MDL	001
2,2',3,4,4',5,5'-七氯联苯 (PCB 180)	35065-29-3	mg/kg	0.5	ND

有机锡化合物

测试方法: 参照ISO 17353: 2004 方法测定, 使用二乙基二硫代氨基甲基钠, 采用 GC-MS 进行分析.

测试项目	单位	MDL	001
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡 (TBT)	mg/kg	0.02	ND
二辛基锡 (DOT)	mg/kg	0.02	ND
单丁基锡 (MBT)	mg/kg	0.02	ND
单辛基锡 (MOT)	mg/kg	0.02	ND
MOTE	mg/kg	0.02	ND
单甲基锡(MT)	mg/kg	0.02	ND
二苯基锡(DPhT)	mg/kg	0.02	ND
二丙基锡(DPT)	mg/kg	0.02	ND
四丁基锡 (TeBT)	mg/kg	0.02	ND
四乙基锡 (TeET)	mg/kg	0.02	ND
硼酸二正丁基锡(DBB) ◆	mg/kg	0.02	ND
三苯基锡 (TPhT)	mg/kg	0.02	ND
三环己基氯化锡 (TCyT)	mg/kg	0.02	ND
单苯基锡 (MPhT)	mg/kg	0.02	ND

备注:

(1) ◆ 硼酸二正丁基锡(DBB) 由二丁基锡(DBT) 的最差含量换算得之



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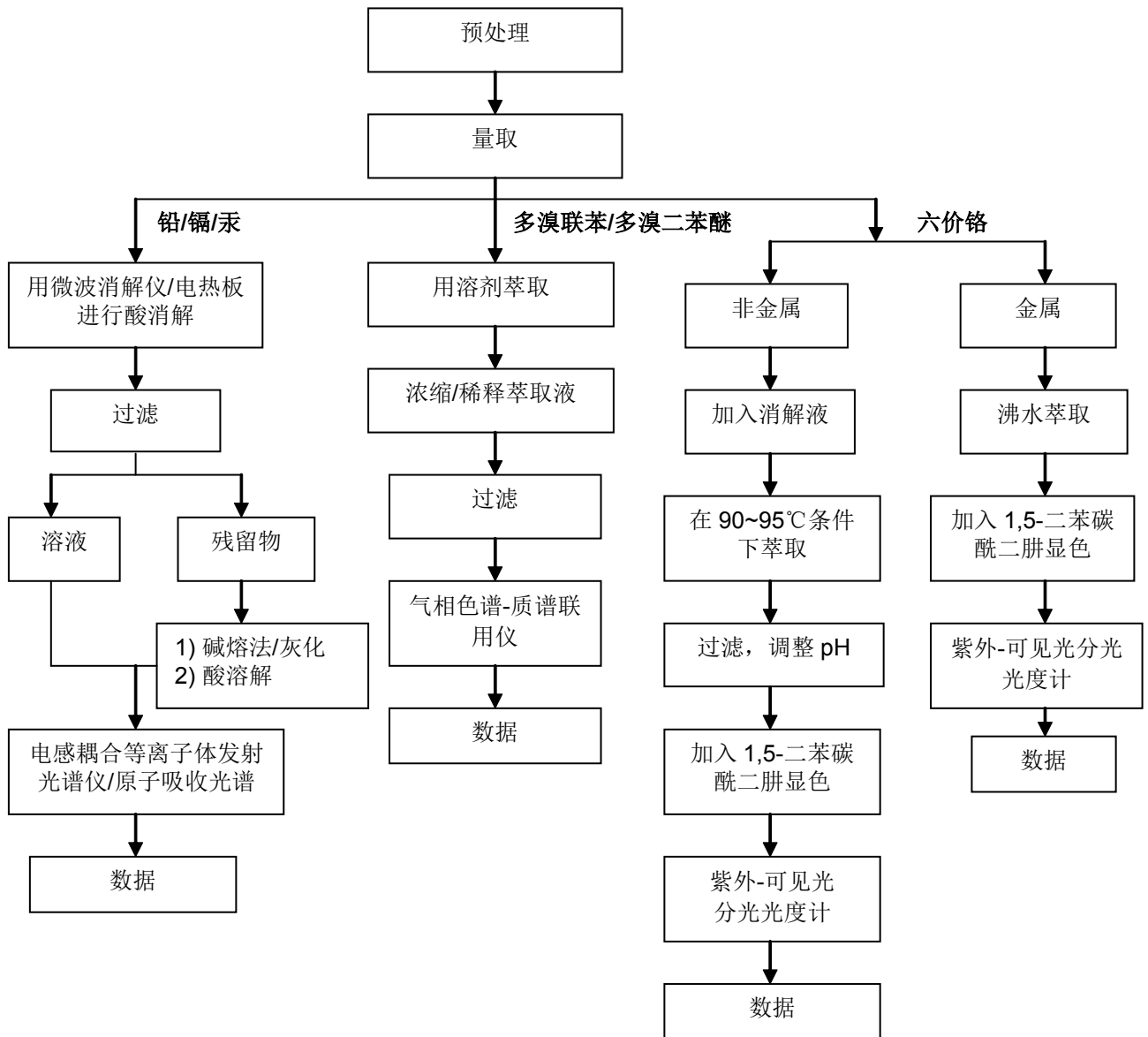
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附件

RoHS 测试流程图

- 1) 分析人员: 金叶/徐刚/李振/宋柯静
- 2) 项目负责人: 施青/黄婷/徐亮/王晓艳
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。



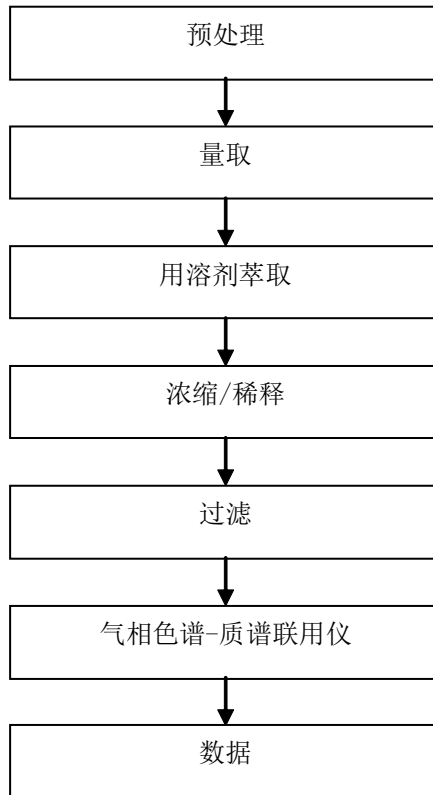
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Phthalates 测试流程图

- 1) 分析人员: 高仰景
- 2) 项目负责人: 黄婷



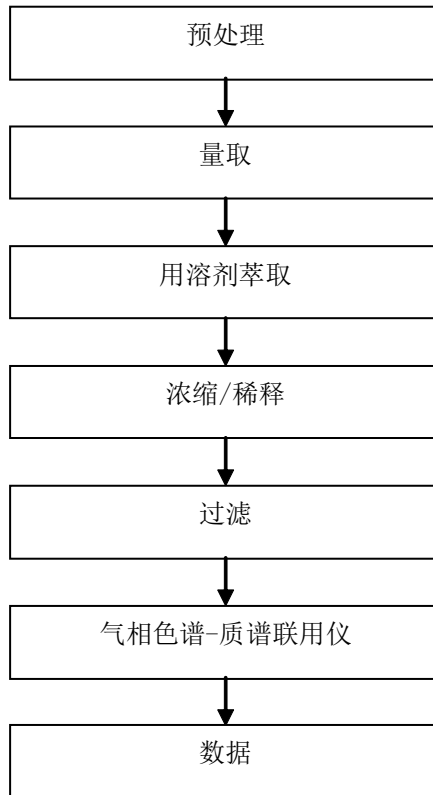
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HBCDD 测试流程图

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- 2) 项目负责人: 黄婷



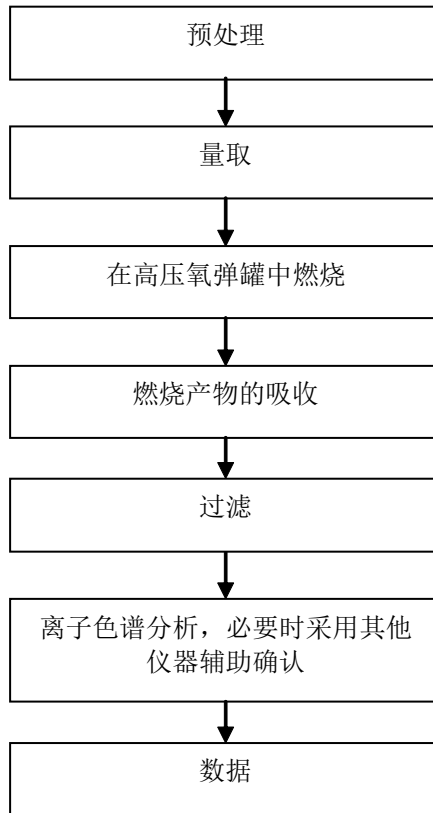
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Halogen(氧弹法)测试流程图

- 1) 分析人员: 徐诚
- 2) 项目负责人: 印宇



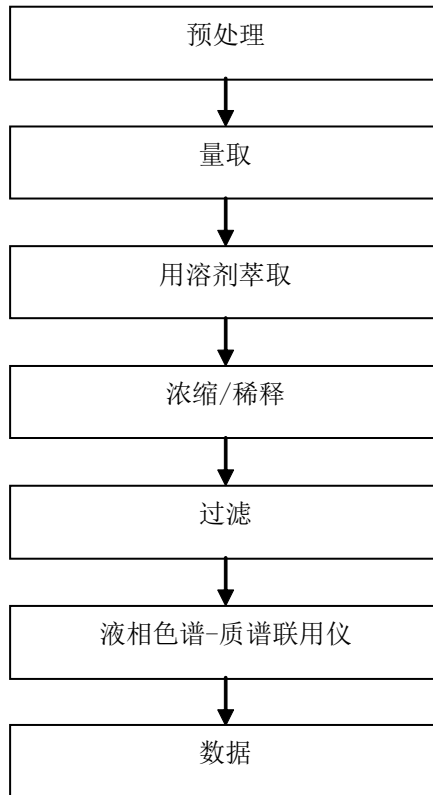
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PFOS/PFOA 测试流程图

- 1) 分析人员: 杨占君
- 2) 项目负责人: 马永存



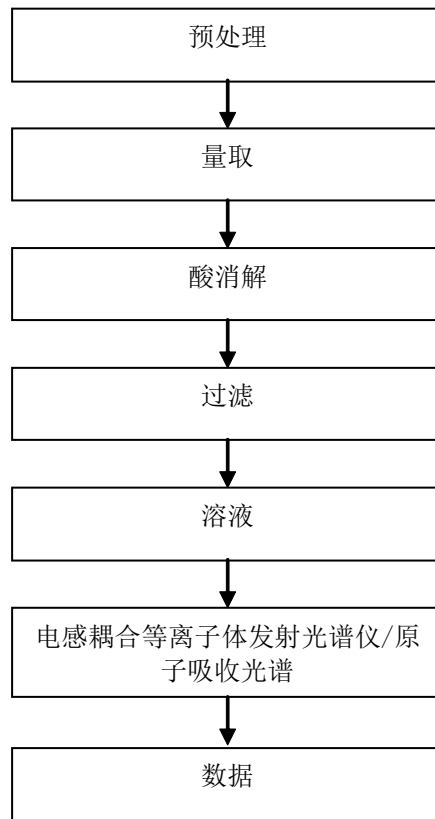
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元素测试流程图

- 1) 分析人员: 金叶/ 宋柯静
- 2) 项目负责人: 徐亮/施青



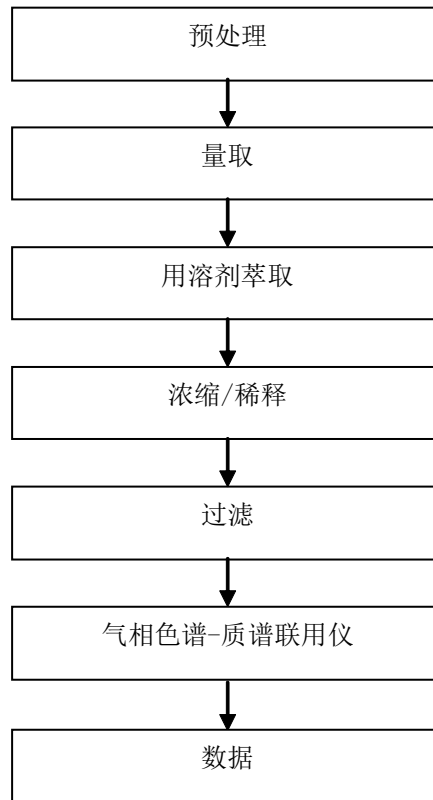
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PAHs 测试流程图

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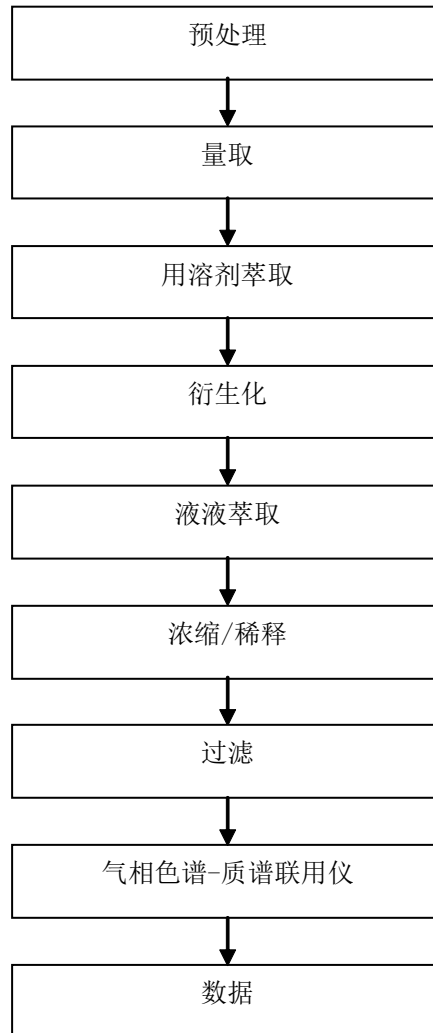


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TBBP-A 测试流程图

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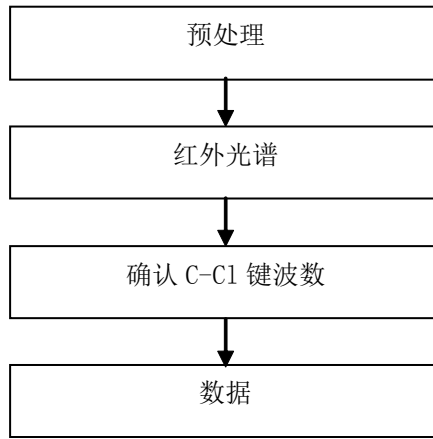
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PVC 测试流程图

- 1) 分析人员: 秦小婷
- 2) 项目负责人: 李丹



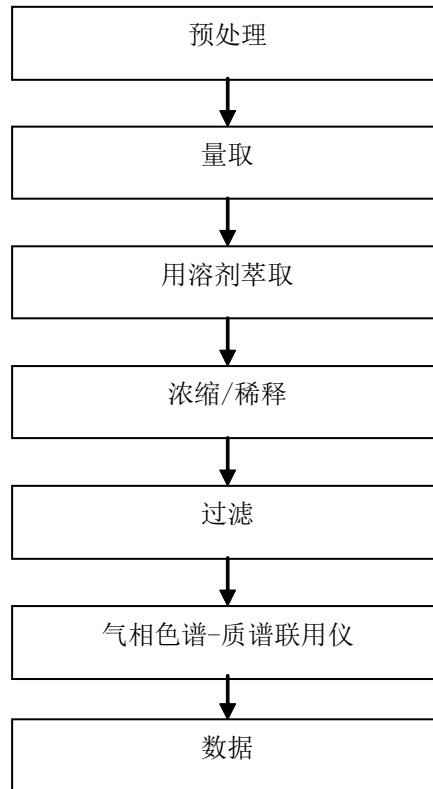
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PCB / PCT / PCN 测试流程图

- 1) 分析人员: 张海珍
- 2) 项目负责人: 余锦晖

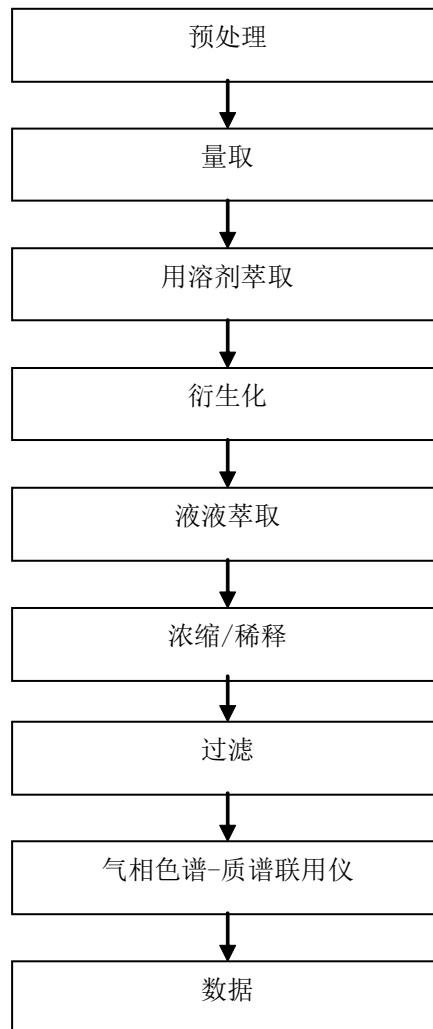


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Organotin 测试流程图

- 1) 分析人员: 邓峻
- 2) 项目负责人: 黄婷



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