

检测报告

编号: TSNEC2303296202

日期: 2023年12月01日 第1页,共12页

客户名称: 安徽晶赛科技股份有限公司
客户地址: 安徽省铜陵市经济技术开发区天门山北道2569号

样品名称: 上盖
型号: 可伐铁镀镍
料号: 可伐铁
客户参考信息: 1612/2016/2520/3225/3030/3838/5032/6035/7050/12456/4545/4330/4025/3131/2525/GLS/2520JL/3225JL/3215/5020/7550/9050/8060

以上样品及信息由客户提供。

SGS工作编号: SHP23-013412 - TJ
样品接收日期: 2023年11月29日
检测周期: 2023年11月29日 - 2023年12月01日
检测要求: 根据客户要求检测
检测方法: 请参见下一页
检测结果: 请参见下一页

检测结果概要:

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),邻苯二甲酸丁苯酯(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
卤素	见检测结果
元素分析	见检测结果
全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐	见检测结果

通标标准技术服务(天津)有限公司
授权签名

刘凤燕

Jaccy Liu刘凤燕
批准签署人

scan to see the report



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检测报告

编号: TSNEC2303296202

日期: 2023年12月01日 第2页,共12页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TSN23-032962.001	银色金属

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

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 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, 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	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(Cr(VI))▼	-	µg/cm ²	0.10	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
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.
Chemical Laboratory

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检测项目	限值	单位	MDL	001
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
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) ▼=a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
 b. 当六价铬的浓度为ND(低于 $0.10 \mu\text{g}/\text{cm}^2$)时, 样品为阴性, 即未检测到六价铬;
 c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;
 由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

卤素

检测方法: 参照EN 14582:2016方法测定, 采用IC进行分析。

检测项目	单位	MDL	001
氟(F)	mg/kg	20	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

元素分析

检测方法: SGS 内部方法-TJChemLab-TOP-004-2 (参照US EPA 3052:1996或US EPA3050B:1996), 采用ICP-OES进行分析。



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检测项目	单位	MDL	001
砷 (As)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND
锑 (Sb)	mg/kg	10	ND

全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐

检测方法: 参考CEN/TS 15968:2010方法, 采用LC/MSMS检测.

检测项目	CAS NO.	单位	MDL	001
全氟辛烷磺酸 (PFOS)及其衍生物		mg/kg	-	ND
全氟辛烷磺酸(PFOS) [^]	1763-23-1	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺(EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺(MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)	1691-99-2	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)	24448-09-7	mg/kg	0.01	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐+		mg/kg	0.01	ND

备注:

- (1) ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和 POSF (CAS No.: 307-35-7)
- (2) + PFOA 及其盐包含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) 和 APFO (CAS No.: 3825-26-1)
- 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。
 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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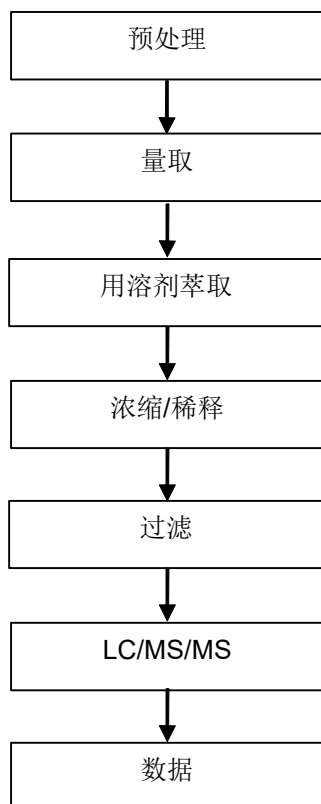
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附件

PFOS/PFOA 检测流程图



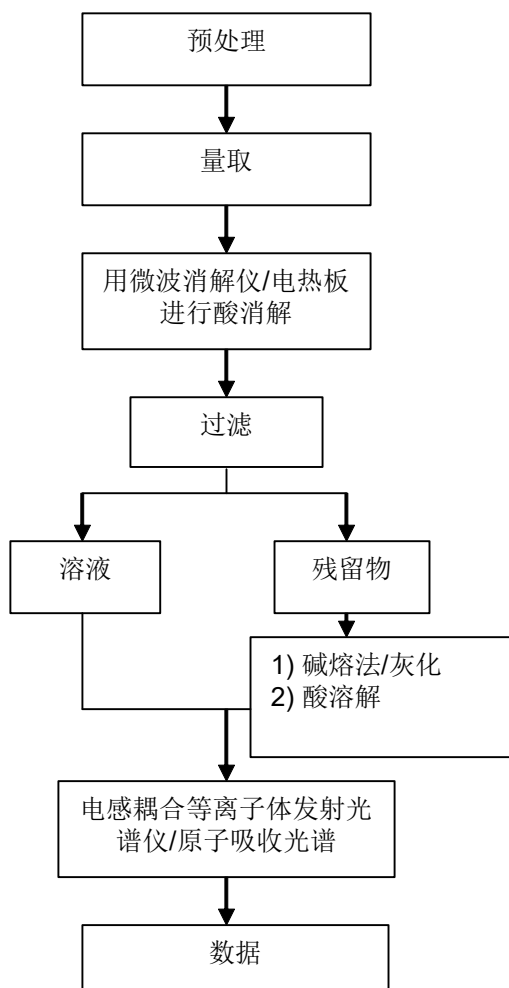
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元素(IEC62321) 检测流程图

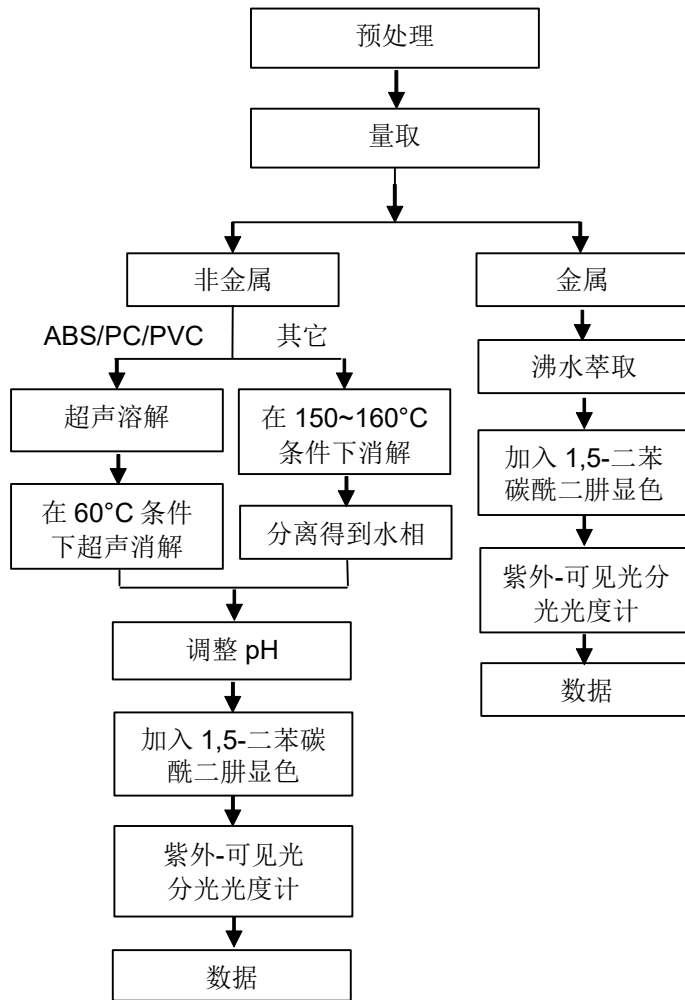
1)样品按照下述流程被完全消解



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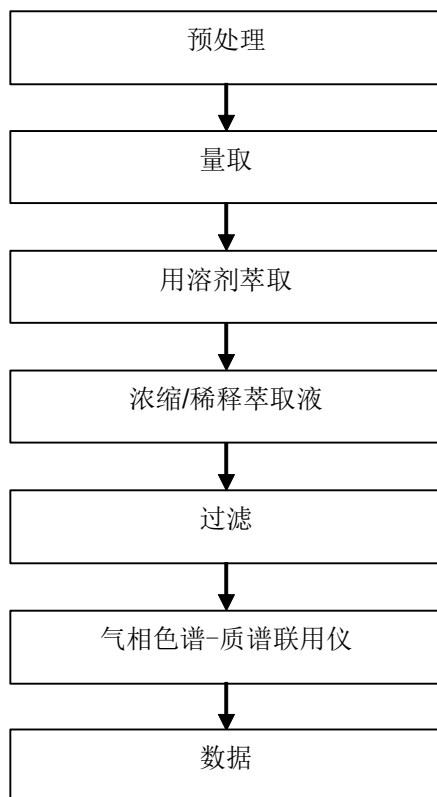
六价铬检测流程图



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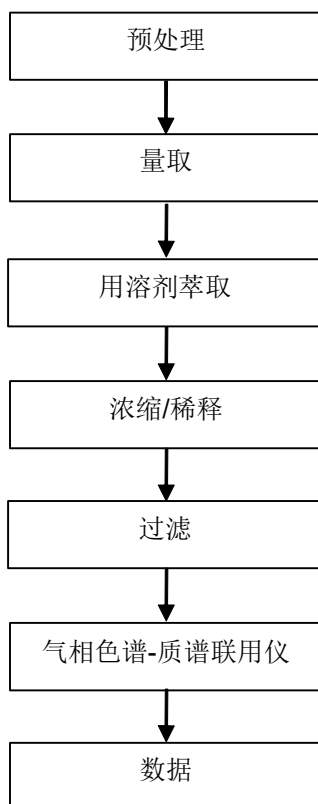
PBBs/PBDEs 检测流程图



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邻苯二甲酸酯检测流程图

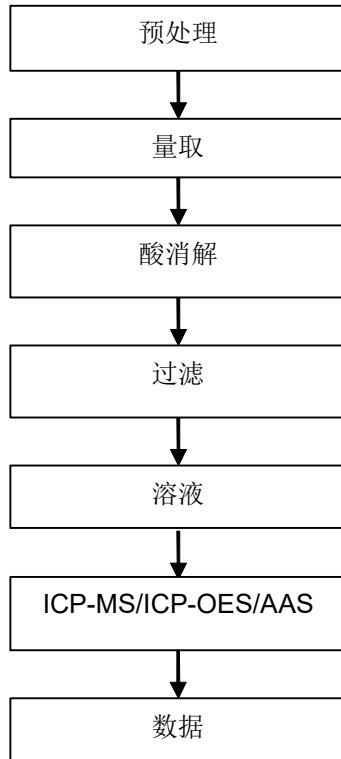


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附件

元素检测流程图

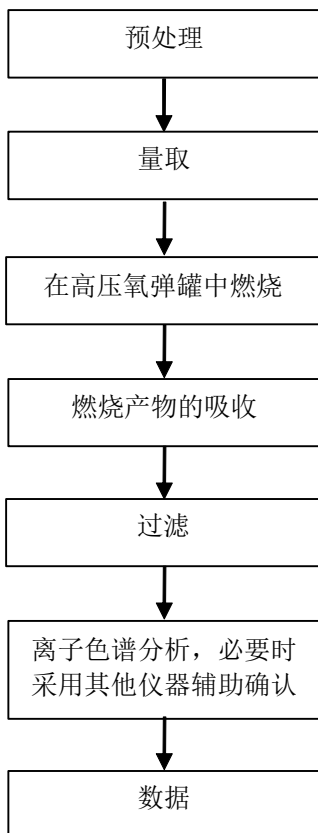


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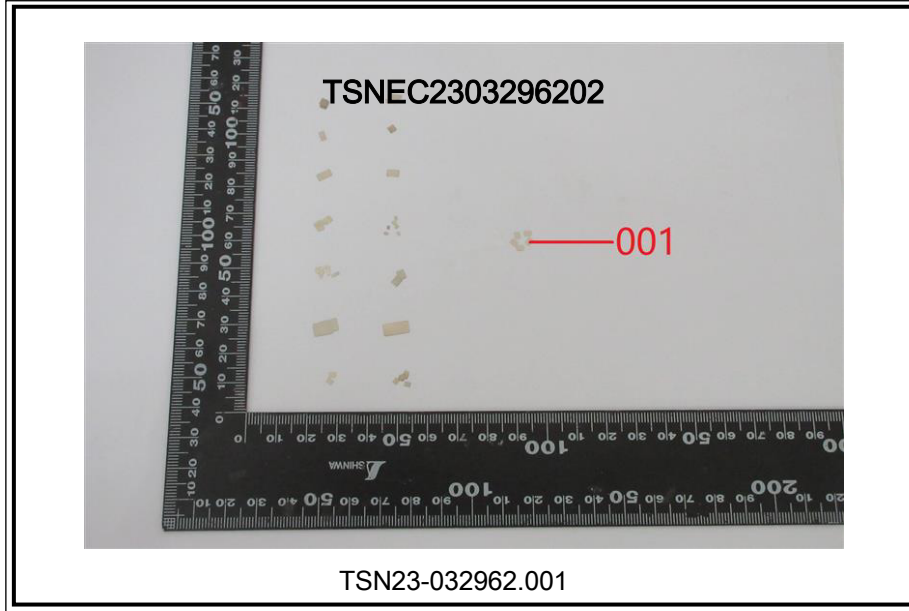
卤素检测流程图



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