

检测报告

编号: TAOEC2306784808

日期: 2023年09月20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: 外壳
型号: 锌白铜镀镍
料号: 锌白铜
客户参考信息: 49S/49SS/49U/49T/D11/F11/TO39/14×9/6838/UM-1/UM-5
以上样品及信息由客户提供。

SGS工作编号: SHP23-013412 - QD
样品接收日期: 2023年09月15日
检测周期: 2023年09月15日 - 2023年09月20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 |
| 卤素 | 见检测结果 |
| 元素 | 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(青岛)有限公司
授权签名

Zhang Bo, Justin 张波
批准签署人

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检测报告

编号: TAOEC2306784808

日期: 2023年09月20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 | TAO23-067848.004 | 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), 邻苯二甲酸丁基酯(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, AAS, UV-Vis和GC-MS进行分析.

| 检测项目 | 限值 | 单位 | MDL | 004 |
|----------------|------|--------------------|------|-----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | 10 |
| 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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编号: TAOEC2306784808

日期: 2023年09月20日 第3页,共12页

| 检测项目 | 限值 | 单位 | MDL | 004 |
|-----------------------|------|-------|-----|-----|
| 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。
- (4) 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。

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 | 004 |
|-------|-------|-----|-----|
| 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

检测方法: 参照US EPA 方法3050B:1996测定, 采用ICP-OES进行分析。



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检测报告

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日期: 2023年09月20日 第4页,共12页

| 检测项目 | 单位 | MDL | 004 |
|-------|-------|-----|-----|
| 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: 参照CEN/TS 15968:2010方法, 采用LC-MS-MS检测.

| 检测项目 | CAS NO. | 单位 | MDL | 004 |
|---------------------------|------------|-------|------|-----|
| 全氟辛烷磺酸(PFOS)及衍生物 | - | 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 |
| 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE) | 1691-99-2 | 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-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)^全氟辛烷磺酸是指其酸、盐/衍生物, 包括全氟辛烷磺酸 (CAS No.: 1763-23-1), 全氟辛基磺酸钾 (CAS No.: 2795-39-3), 全氟辛基磺酸锂 (CAS No.: 29457-72-5), 全氟辛基磺酸铵 (CAS No.: 29081-56-9), 全氟辛烷磺酸二乙醇胺 (CAS No.: 70225-14-8), 全氟辛烷磺酸四乙铵 (CAS No.: 56773-42-3), 全氟辛基磺酸二癸二甲基铵 (CAS No.: 251099-16-8) 和全氟辛基磺酰氟 (CAS No.: 307-35-7)。

(2) PFOA及其盐+是指其酸/盐, 包括全氟辛酸 (CAS No.: 335-67-1), 全氟辛酸钠 (CAS No.: 335-95-5), 全氟辛酸钾 (CAS No.: 2395-00-8), 全氟辛酸银 (CAS No.: 335-93-3), 全氟辛酰氟 (CAS No.: 335-66-0) 和全氟辛酸铵 (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。

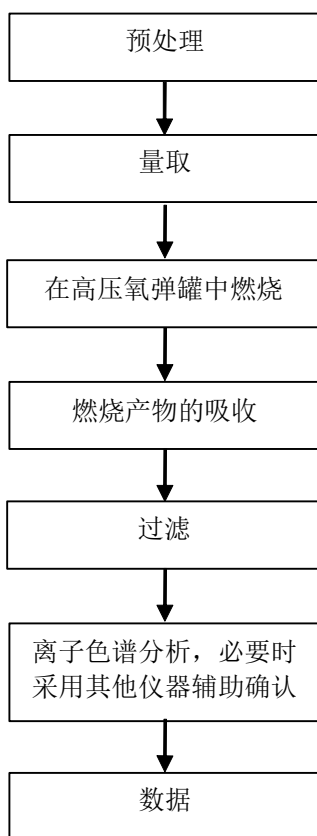


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附件

卤素检测流程图

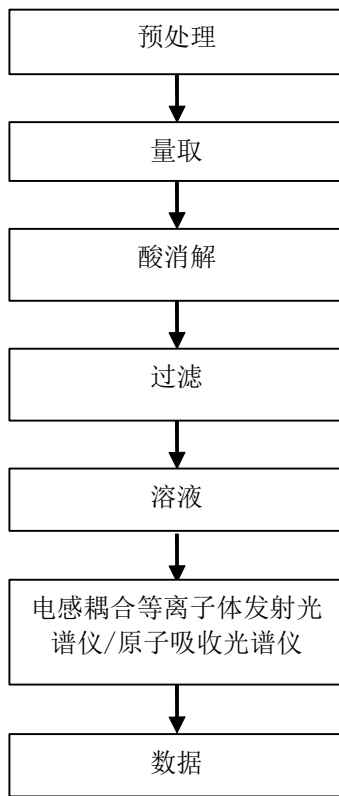


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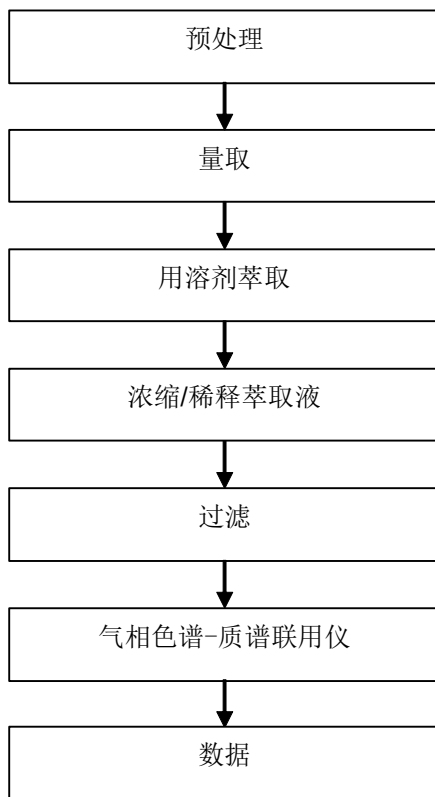
元素检测流程图



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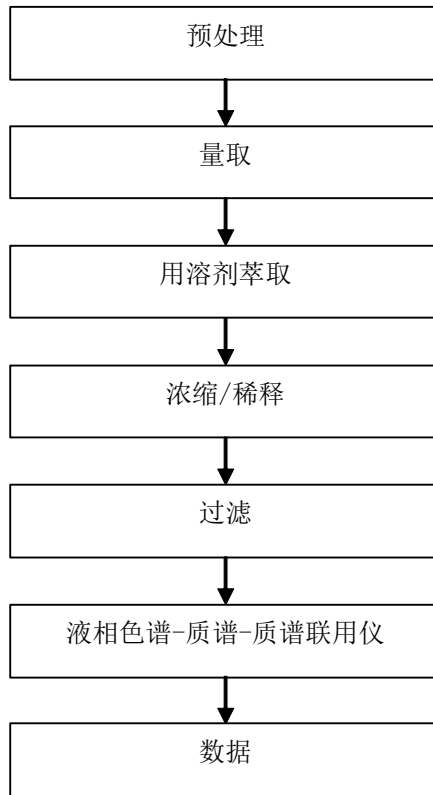
PBBs/PBDEs 检测流程图



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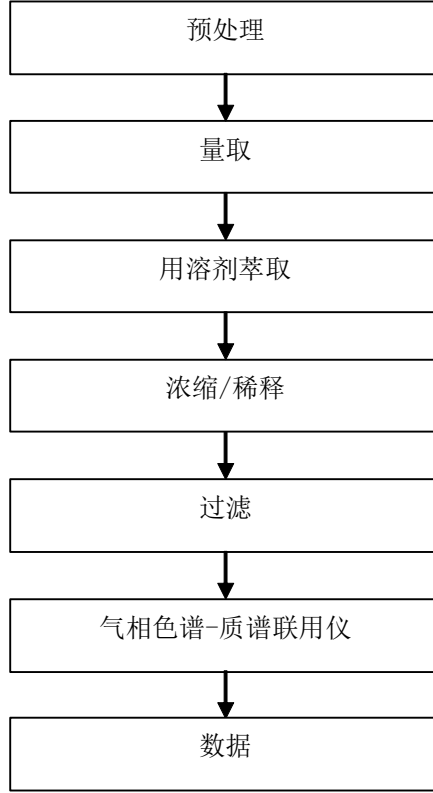
PFOS/PFOA 检测流程图



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Phthalates 检测流程图

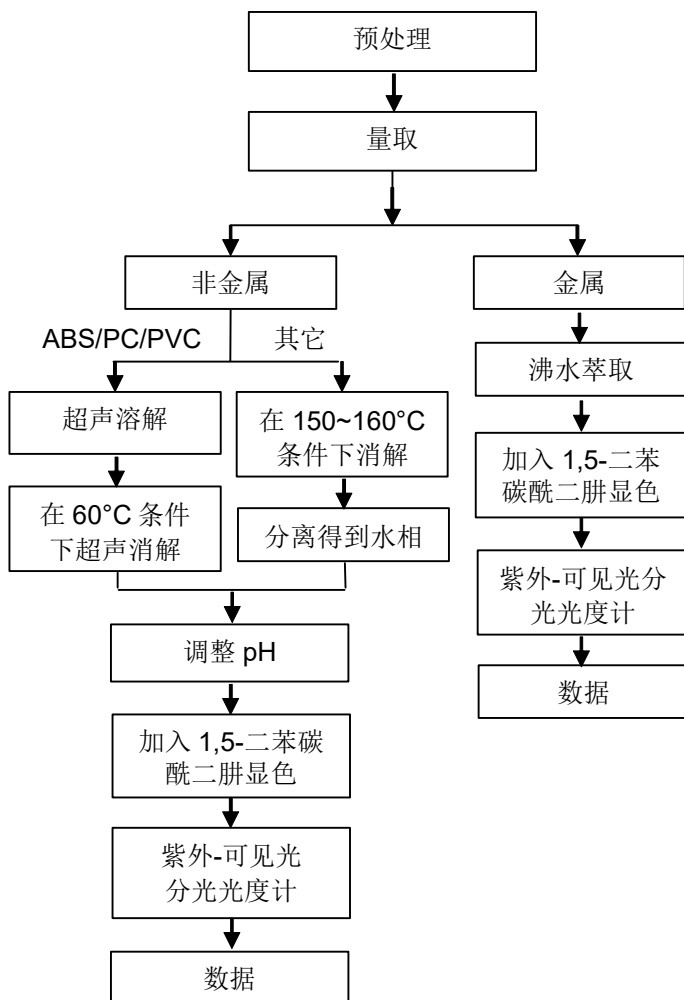


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六价铬检测流程图

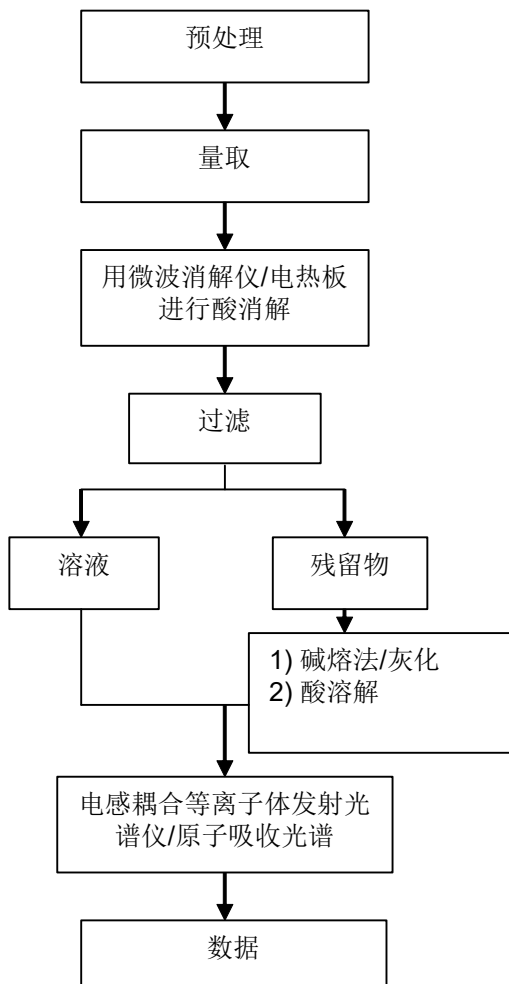


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元素(IEC62321) 检测流程图

1)样品按下述流程被完全消解



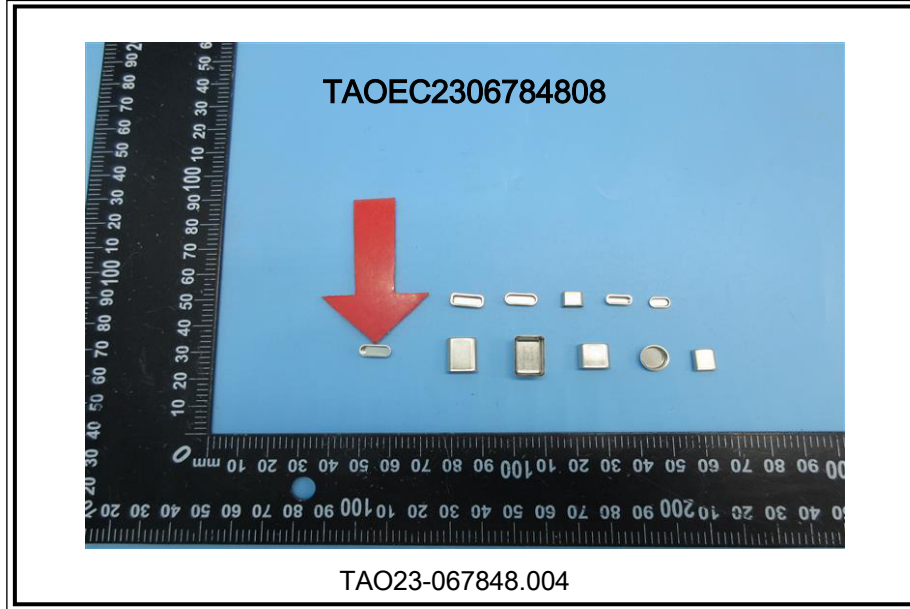
1- 报告编号: TAOEC2306784808



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