

## 检测报告

编号: TAOEC2305843306 A01

日期: 2023年08月18日

第1页,共13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: 铁材镀镍

客户参考信息: 镀镍马达外壳、AT51外壳、7030外壳、3225HT、TO-5

以上样品及信息由客户提供。

此报告替代原来编号为TAOEC2305843304的报告。

SGS工作编号: SHP23-010327 - QD

样品接收日期: 2023年08月14日

检测周期: 2023年08月14日 - 2023年08月18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	见检测结果
美国加州法案65-邻苯二甲酸酯含量	符合
全氟辛酸磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐	见检测结果
美国加州法案65- 铅含量	符合

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授权签名Zhang Bo, Justin 张波  
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SGS-CSTC (Shanghai) Technical Services (Qingdao) Co., Ltd.

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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	TAO23-058433.002	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	002
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 <sup>2</sup>	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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检测项目	限值	单位	MDL	002
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	002
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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检测项目	单位	MDL	002
铍(Be)	mg/kg	5	ND
锑(Sb)	mg/kg	10	ND

### 美国加州法案65-邻苯二甲酸酯含量

检测方法: 参考CPSC-CH-C1001-09.4(2018), 采用GC-MS进行分析。

检测项目	CAS NO.	限值	单位	MDL	002
邻苯二甲酸二丁酯(DBP)	84-74-2	1000	mg/kg	50	ND
邻苯二甲酸丁酯苯酯(BBP)	85-68-7	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	1000	mg/kg	50	ND
邻苯二甲酸二异癸酯(DIDP)	26761-40-0	1000	mg/kg	50	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	1000	mg/kg	50	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0	1000	mg/kg	50	ND
	/68515-48-0				
结论					符合

备注:

- 限值引用于County of Marin Court Case No. CIV 091146, the County of Santa Clara Superior Court, 114CV267501中的要求.
- 报告中引用的限值源于加州65法案相关的特定和解协议, 其涉及的产品与此检测产品最接近。报告中的检测结果并不表示用户接触此化学物质的实际暴露量。和解协议中未指名的生产商或零售商不受此案例约束, 且可选择以清晰告知消费者潜在暴露风险的方式符合加州65法案。

### 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	002
全氟辛烷磺酸(PFOS)及衍生物	-	mg/kg	-	ND
全氟辛烷磺及其衍生物 (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



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检测项目	CAS NO.	单位	MDL	002
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)。

### 美国加州法案65- 铅含量

检测方法: 参照CPSC检测方法:CPSC-CH-E1001-08.3. 采用AAS进行分析。

检测项目	限值	单位	MDL	002
铅 (Pb)	100	mg/kg	20	ND
结论				符合

备注:

(1) 限值引用于San Diego Superior Court Case No. 37-2016-00003730-CU-NP-CTL 的要求。

(2) 报告中引用的限值源于加州65法案相关的特定和解协议, 其涉及的产品与此检测产品最接近。报告中的检测结果并不表示用户接触此化学物质的实际暴露量。和解协议中未指名的生产商或零售商不受此案例约束, 且可选择以清晰告知消费者潜在暴露风险的方式符合加州65法案。

备注:

- 本报告更新了型号。

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。

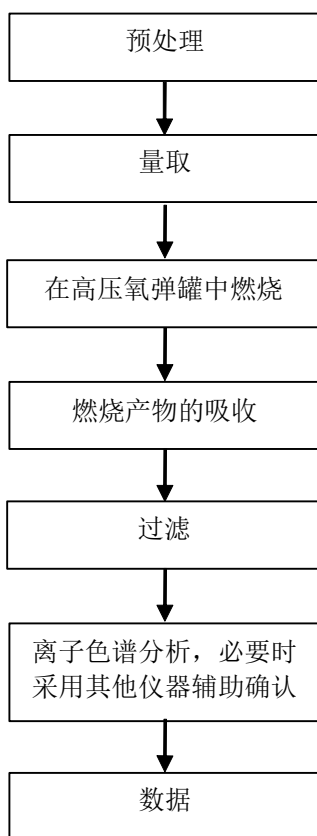


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附件

卤素检测流程图

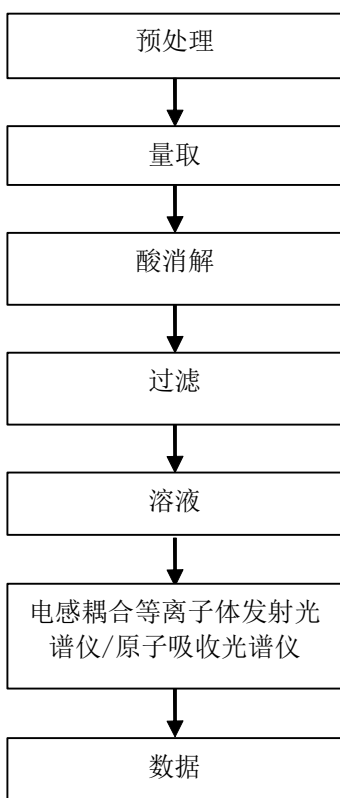


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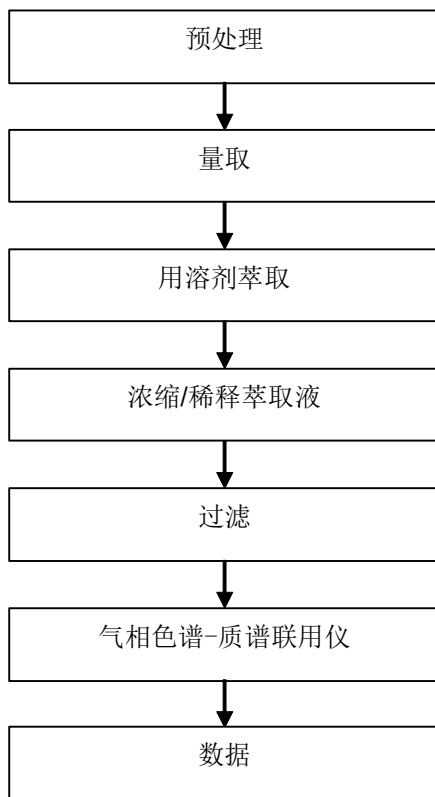
### 元素检测流程图



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### PBBs/PBDEs 检测流程图

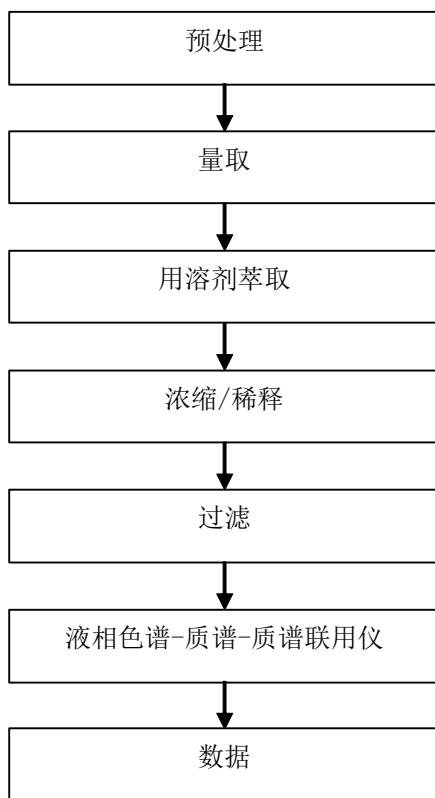


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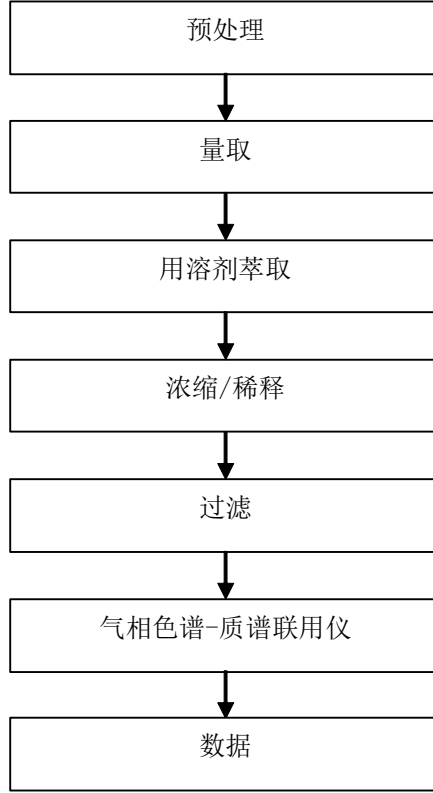
### PFOS/PFOA 检测流程图



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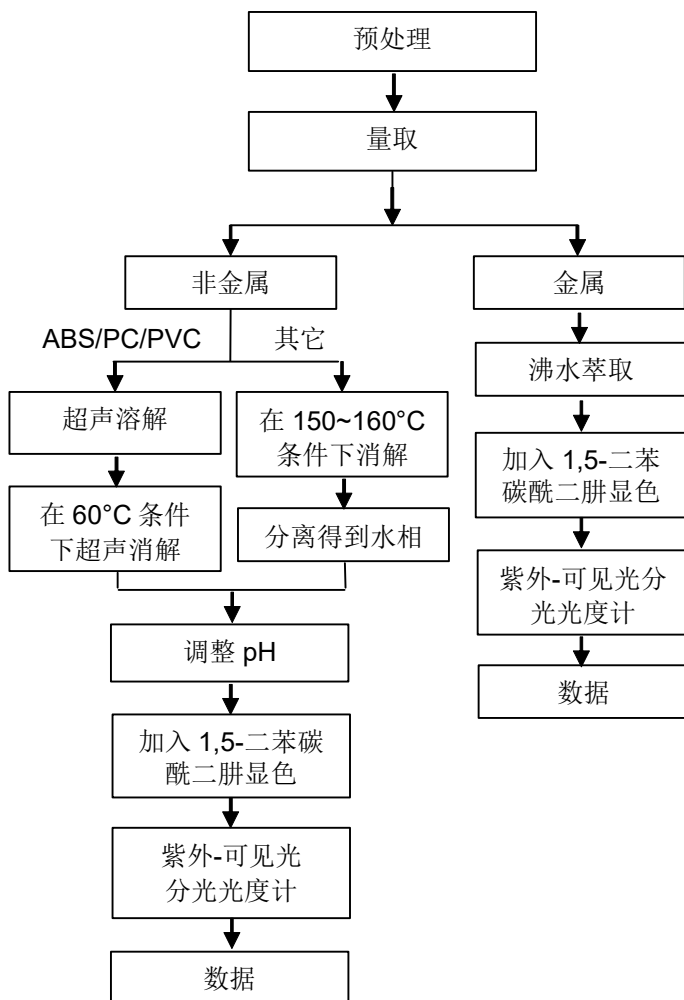
## Phthalates 检测流程图



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## 六价铬检测流程图

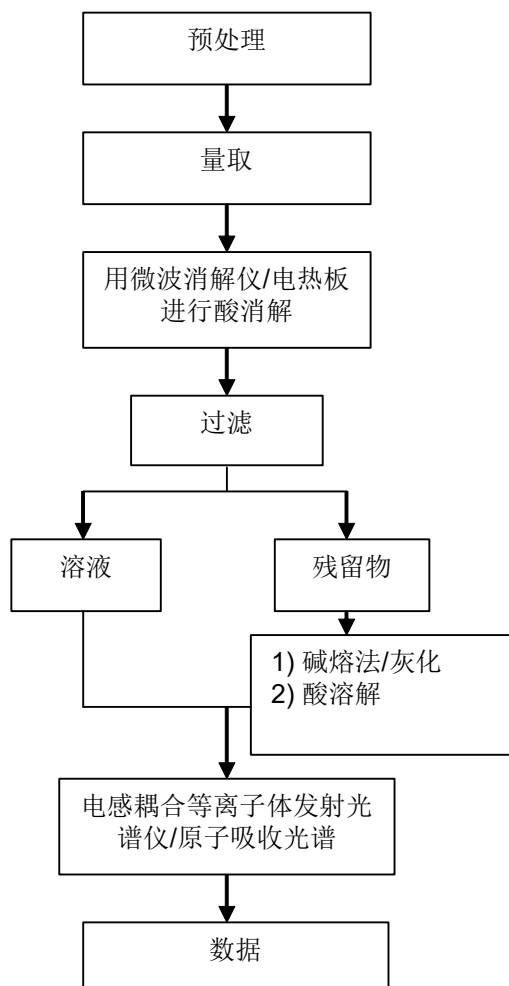


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## 元素(IEC62321) 检测流程图

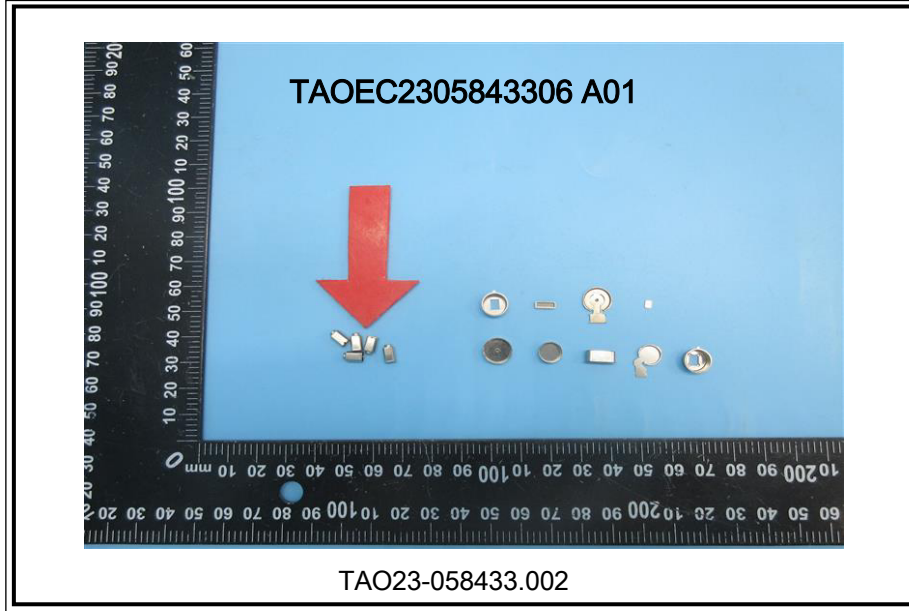
1)样品按下述流程被完全消解



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