

检测报告

编号: SHAEC23003905602

日期: 2023年04月10日

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客户名称: 江苏振华新云电子有限公司
 客户地址: 扬州市邗江区高蜀北路68号

样品名称: 二氧化锰片式钽电解电容器
 型号: CA45

以上样品及信息由客户提供。

SGS 工作编号: SP23-008888
 样品接收时间: 2023年04月06日
 检测周期: 2023年04月06日 ~ 2023年04月10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

通标标准技术服务（上海）有限公司
 授权签名

Carol Luo 罗萍
 批准签署人

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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	SHA23-0039056-0001.C001	黑色粉末
SN2	A2	SHA23-0039056-0001.C002	银色金属丝
SN3	A3	SHA23-0039056-0001.C003	粉色透明晶体
SN4	A4	SHA23-0039056-0001.C004	黑色膏体
SN5	A5	SHA23-0039056-0001.C005	灰色膏体
SN6	A6	SHA23-0039056-0001.C006	银色金属
SN7	A7	SHA23-0039056-0001.C007	黄色固体
SN8	A8	SHA23-0039056-0001.C008	黄色固体

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	A3	A4
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND	ND



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检测项目	限值	单位	MDL	A1	A3	A4
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

检测项目	限值	单位	MDL	A5	A7	A8
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND	ND

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检测项目	限值	单位	MDL	A5	A7	A8
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯(DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	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。

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用测汞仪, ICP-OES, AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2	A6
镉(Cd)	100	mg/kg	2	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND
汞(Hg)	1000	mg/kg	2	ND	ND
六价铬(Cr(VI))▼	-	μg/cm ²	0.10	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND	ND
二溴联苯(DiBB)	-	mg/kg	5	ND	ND
三溴联苯(TriBB)	-	mg/kg	5	ND	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND	ND



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检测项目	限值	单位	MDL	A2	A6
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	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测试时样品含六价铬的状态。

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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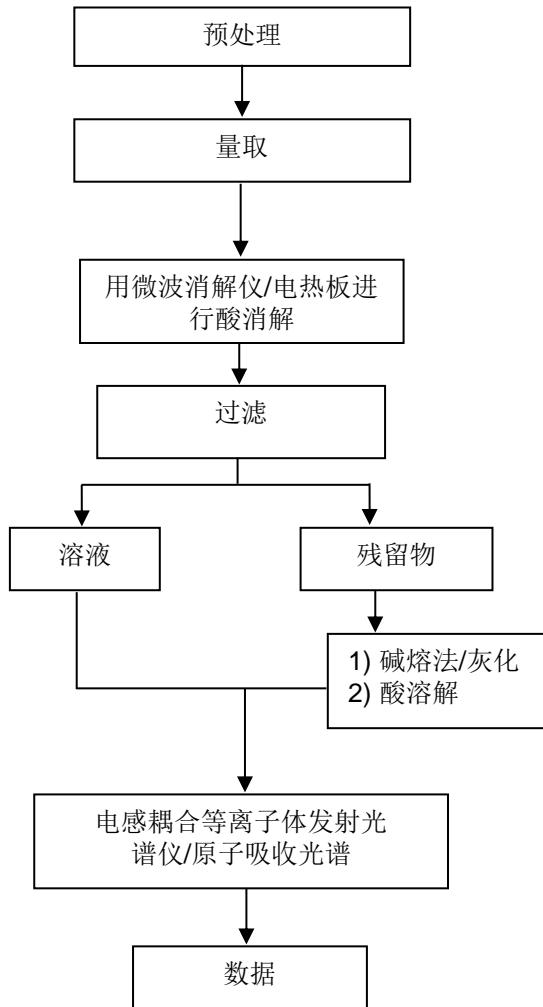
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附件

元素检测流程图

样品按照下述流程被完全消解



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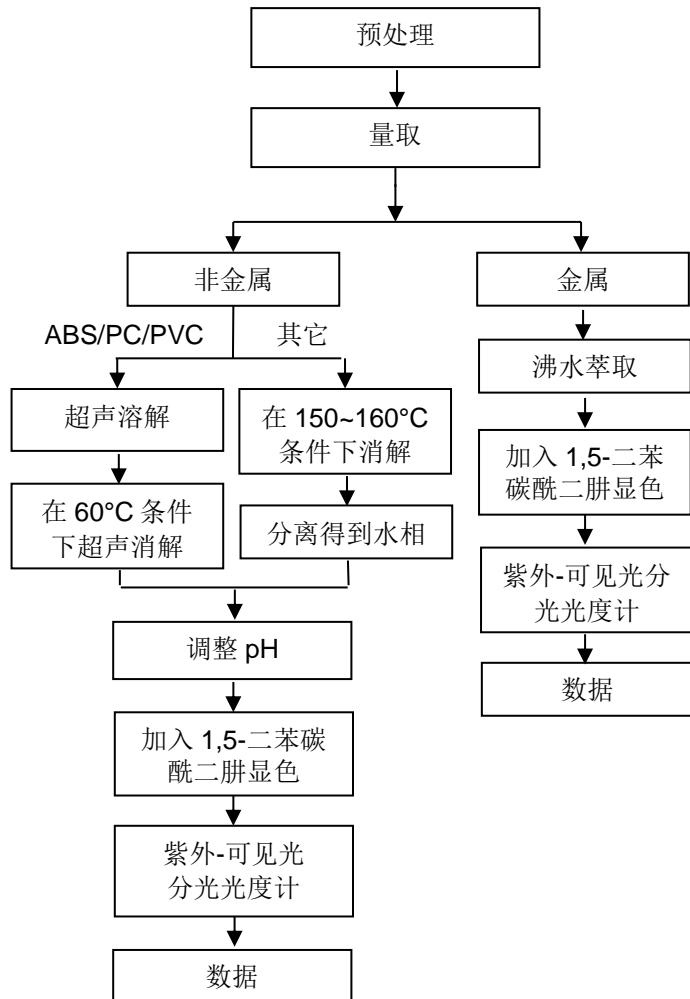
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附件

六价铬检测流程图



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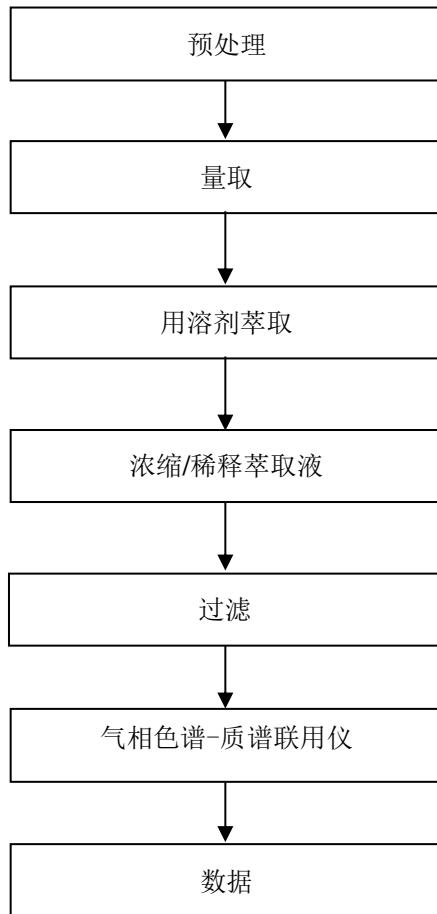
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附件

PBBs/PBDEs 检测流程图



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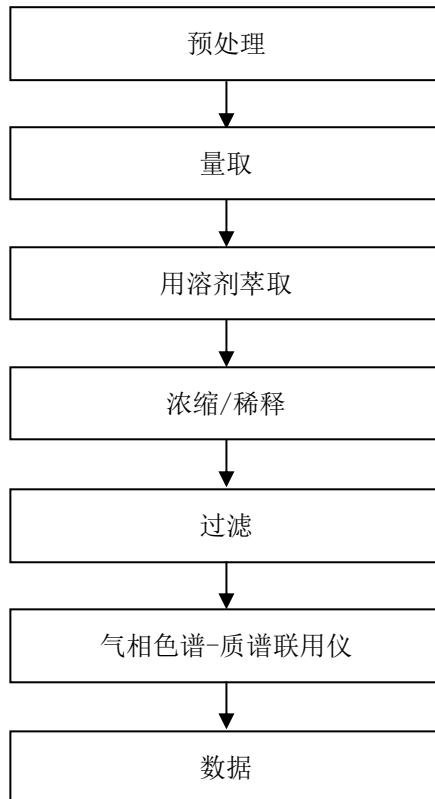
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附件

Phthalates 检测流程图



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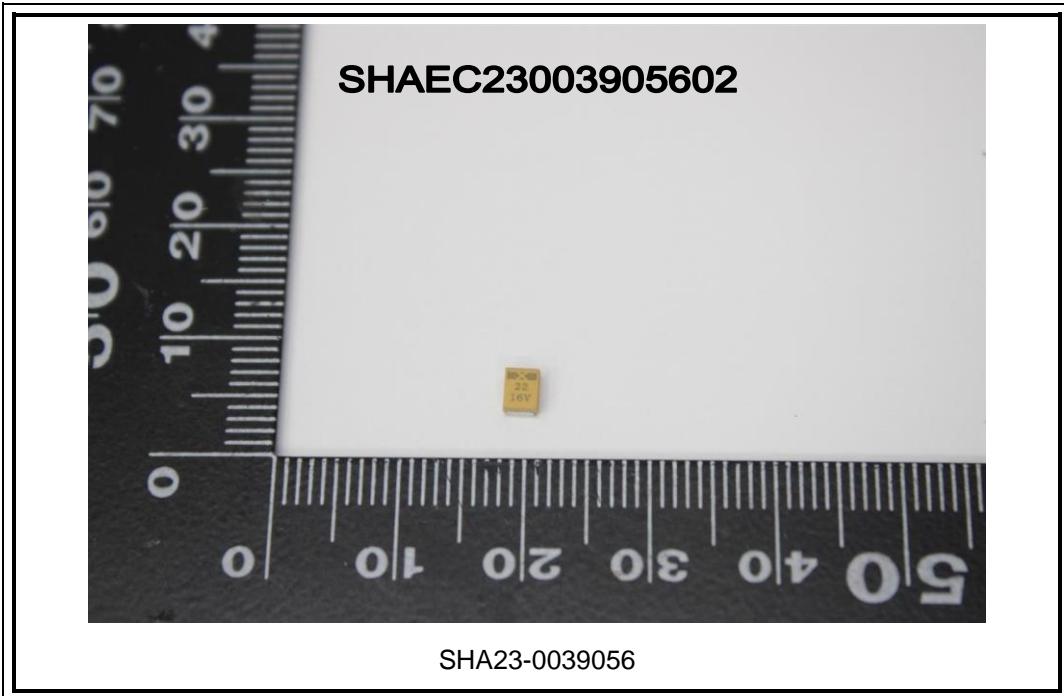
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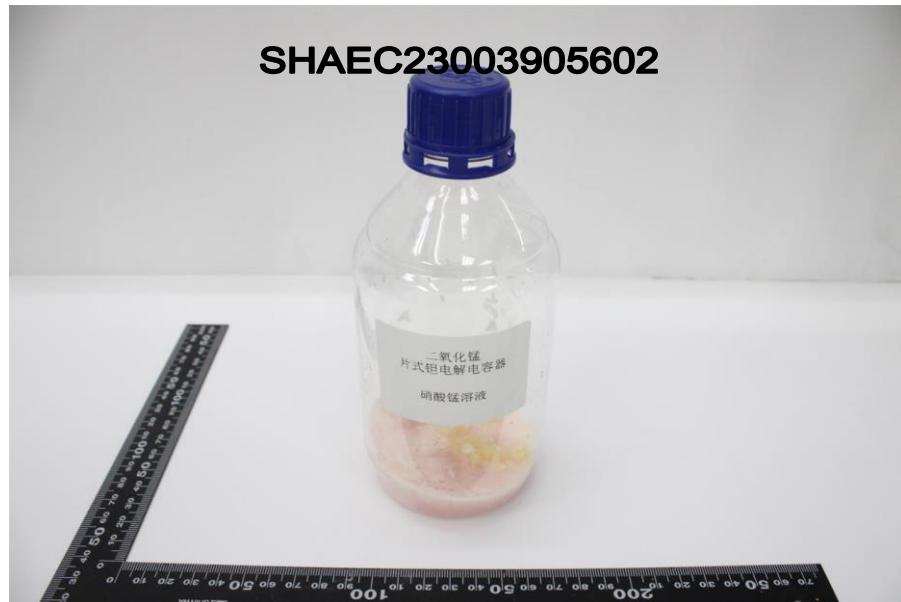
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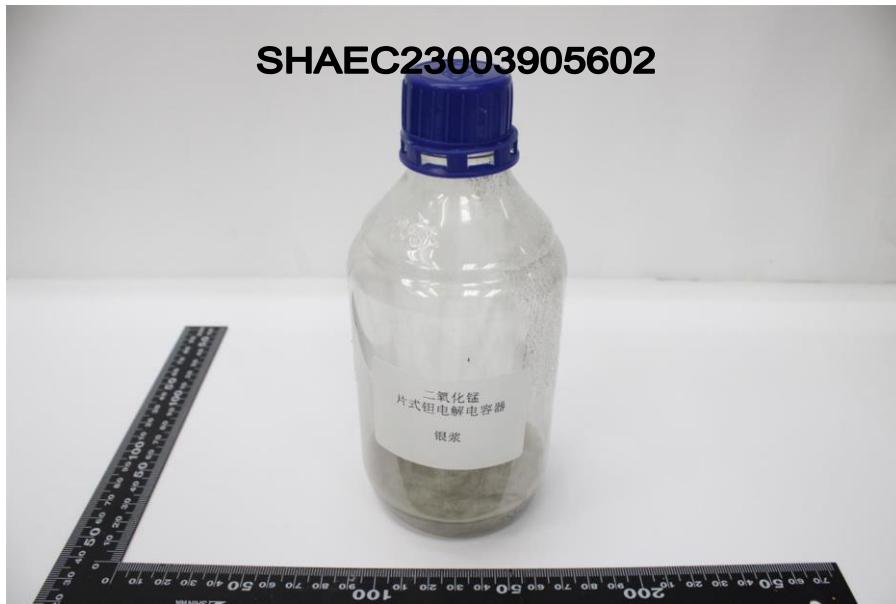
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