

检测报告

编号: SHAEC23002618512

日期: 2023 年 03 月 17 日

第 1 页, 共 10 页

客户名称: 上海友邦电气(集团)股份有限公司

客户地址: 上海市松江区佘山镇吉业路 528 号

样品名称: 接线端子

型号: UTD-15

客户参考信息: 见附页

以上样品及信息由客户提供。

SGS 工作编号: SP23-006671

样品接收时间: 2023 年 03 月 13 日

检测周期: 2023 年 03 月 13 日 ~ 2023 年 03 月 17 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、镉和六价铬	符合
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

刘盈妹

Annie Liu 刘盈妹
批准签署人

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第 2 页, 共 10 页

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	A20	SHA23-0026185-0001.C020	黑色固体
SN2	A21	SHA23-0026185-0001.C021	银色金属
SN3	A22	SHA23-0026185-0001.C022	银色金属

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、镉和六价铬

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

检测项目	限值	单位	MDL	A21	A22
镉 (Cd)	100	mg/kg	2	4	ND
铅 (Pb)	1000	mg/kg	2	153	ND
汞 (Hg)	1000	mg/kg	2	ND	ND
六价铬(Cr(VI)) ▼	-	µg/cm ²	0.10	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 µg/cm²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 µg/cm²) 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 µg/cm²与0.13 µg/cm²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。

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。



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日期: 2023 年 03 月 17 日

第 3 页, 共 10 页

检测项目	限值	单位	MDL	A20
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))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	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) 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。

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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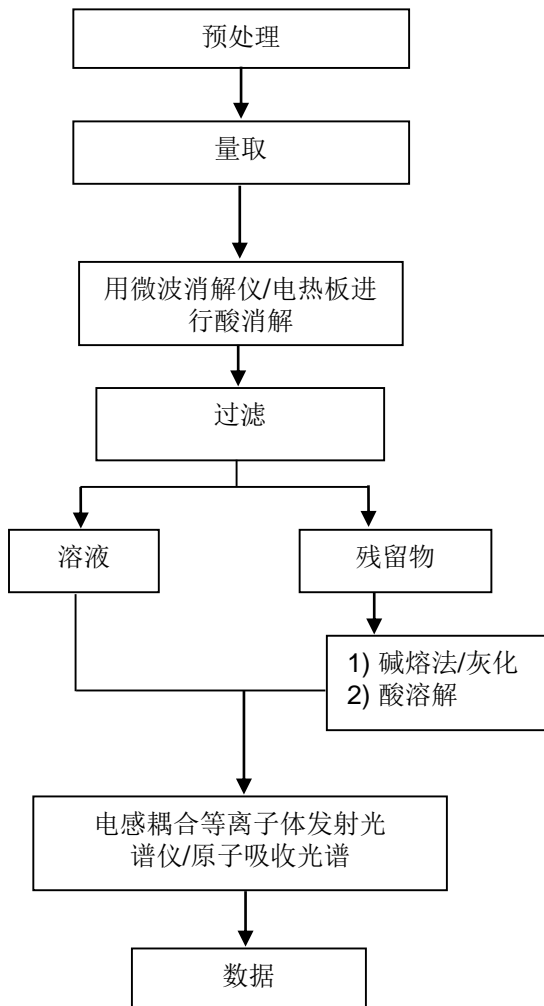
日期: 2023 年 03 月 17 日

第 4 页, 共 10 页

附件

元素 (IEC62321) 检测流程图

样品按照下述流程被完全消解



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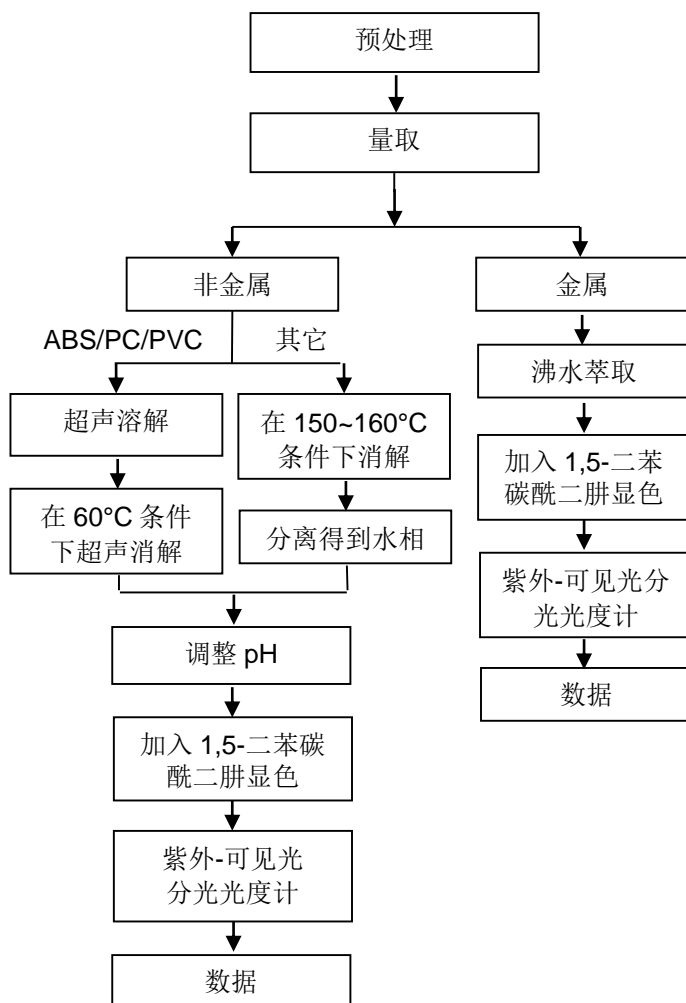
检测报告
附件

编号: SHAEC23002618512

日期: 2023 年 03 月 17 日

第 5 页, 共 10 页

六价铬检测流程图



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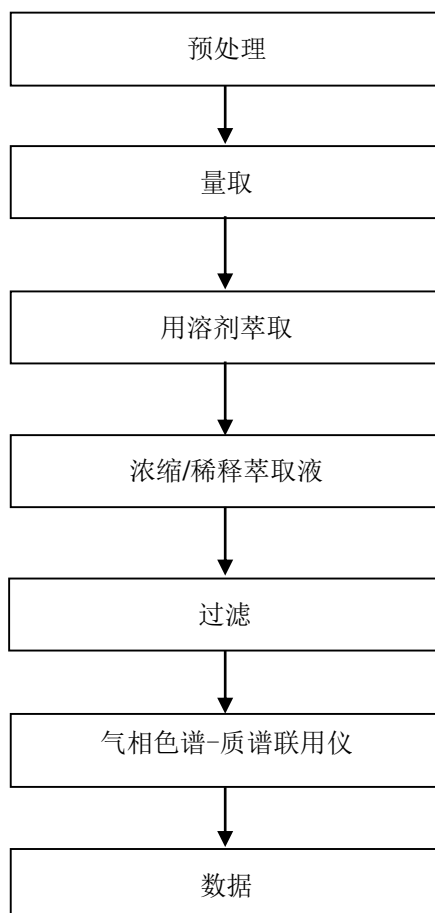
附件

编号: SHAEC23002618512

日期: 2023 年 03 月 17 日

第 6 页, 共 10 页

PBBs/PBDEs 检测流程图



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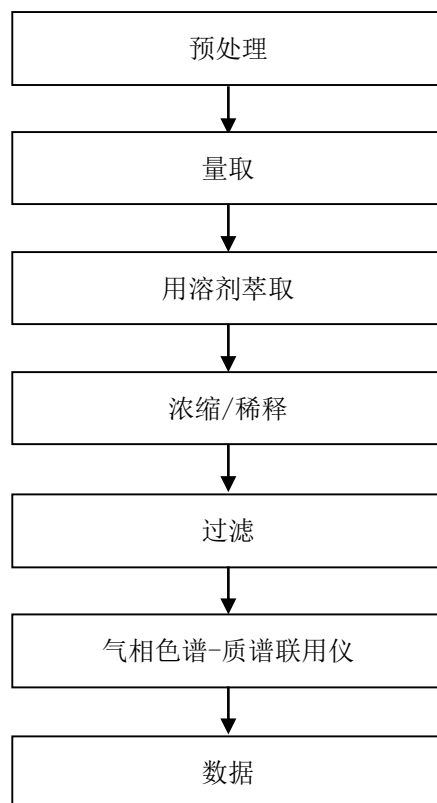
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Phthalates 检测流程图



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第 8 页, 共 10 页

附件:

UTD-10, UTD-15, UTD-24, UTD-32, UTD-15/3, UTD-24/3, UTD-32/3, UTD-41, UTD-63, UTD-100, UTD-100I, UTD-150, UTD-150I, UTD-200, UTD-200I, UTD-300, UTD-300I, UTD-400, UTD-600, UTD-1000, UTD-10/2-2, UTD-10/2×2, UTD-15/2-2, UTD-15/2×2, UTD-24/2-2, UTD-24/2×2, UTD-24JD, UTD-2.5RD, UTD-4RD, UTD-10RD, UTD-32RD, UTD-20SK, UTD-24S3, UTD-24E, UTD-32E, UTD-24/2-2D, UTD-24/2-2E, UTD-100I/2×25, UTD-100I/3×16, UTD-100I/4×16, UTD-100I/6×16, UTD-150I/2×25, UTD-150I/3×16, UTD-150I/4×16, UTD-150I/6×16, UTD-200I/2×25, UTD-200I/3×16, UTD-200I/4×16, UTD-200I/6×16, UTD-200I/8×10, UTD-200I/9×16, UTD-200I/12×10, UTD-300I/2×35, UTD-300I/3×25, UTD-300I/4×25, UTD-300I/6×25, UTD-300I/8×16, UTD-300I/9×16, UTD-300I/12×16, UTD-300I/15×10, UTD-300I/18×6, UTD-150I 4/6, UTD-200I 4/6, UTD-200I 4/9, UTD-200I 4/12, UTD-300I 4/6, UTD-300I 4/9, UTD-300I 4/12, UTD-300I 4/18, UTD-41J, UTD-63A, UTD-41C, UTD-B1, UTD-B2, UTD-BJ, UTD-D, UTD-D2, UTD-D3, UTD-UD1, UTD-UD2, UTD-2G2, UTD-2G3, UTD-2G4, UTD-10G, UTD-41G, UTD-63G, UTD-100G, UTD-100IG, UTD-150G, UTD-150IG, UTD-10/HG, UTD-15/HG, UTD-24/HG, UTD-10/HBG, UTD-15/HBG, UTD-24/HBG



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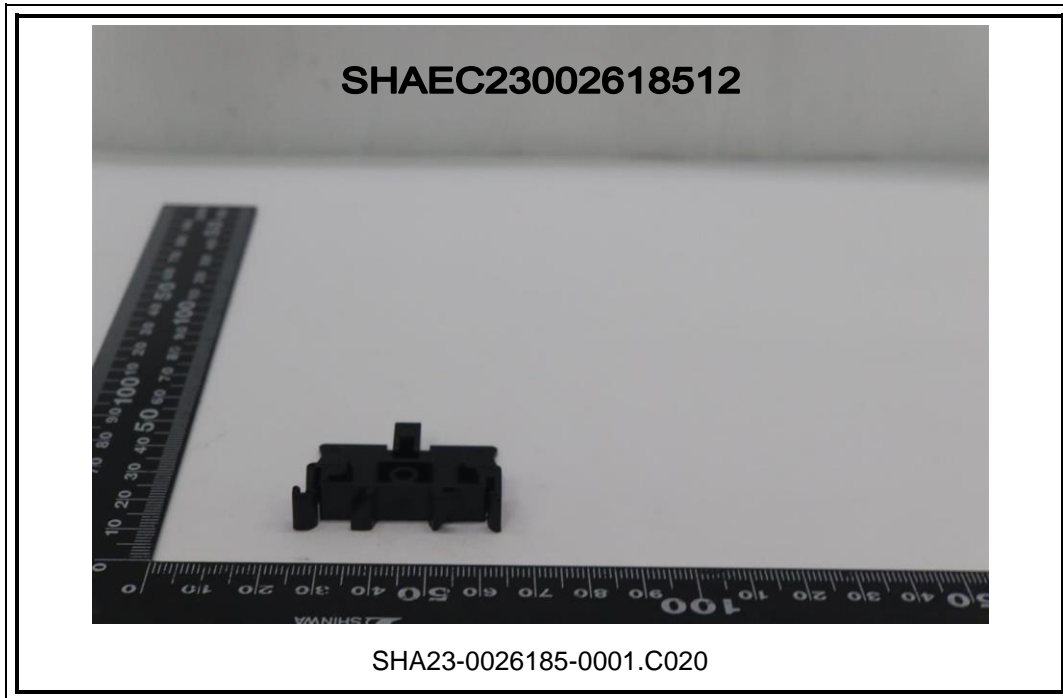
检测报告

编号: SHAEC23002618512

日期: 2023 年 03 月 17 日

第 9 页, 共 10 页

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