

检测报告

编号: SHAEC24004166508

日期: 2024年03月18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: 汇流排
型号: UP1-63/1P
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: TIC1020240307154805NHB2
样品接收时间: 2024年03月08日
检测周期: 2024年03月08日 ~ 2024年03月18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 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合
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

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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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	A12	SHA24-0041665-0001.C012	蓝色固体
SN2	A13	SHA24-0041665-0001.C013	铜色金属
SN3	A14	SHA24-0041665-0001.C014	灰色固体

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 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)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/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A12	A14
铅 (Pb)	1000	mg/kg	2	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND
多溴联苯之和 (PBB)	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 (PBDE)	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



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第3页, 共10页

检测项目	限值	单位	MDL	A12	A14
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
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(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND
邻苯二甲酸二丁酯 (DBP)	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。

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	A13
铅 (Pb)	1000	mg/kg	2	20
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))▼	-	µg/cm ²	0.10	ND

备注:

- (1) 最大允许限值引用自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检测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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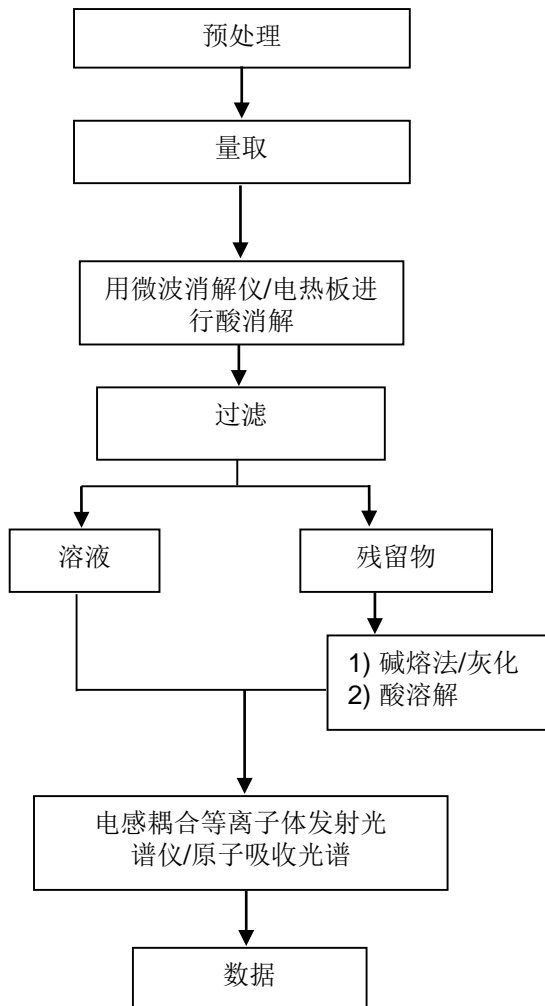
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附件

元素检测流程图

样品按照下述流程被完全消解



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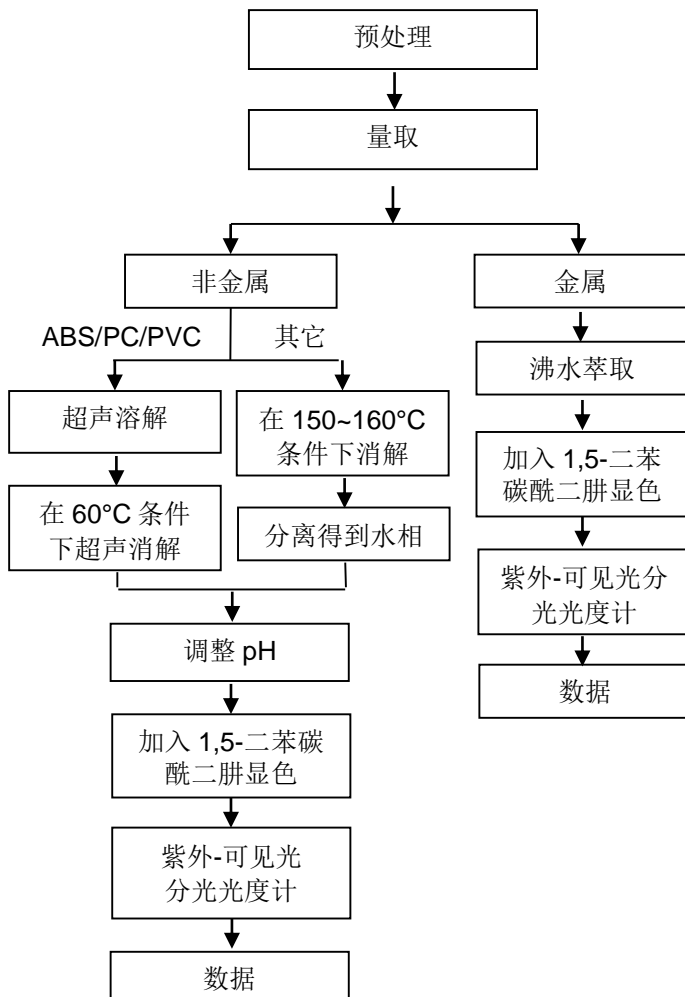
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六价铬检测流程图



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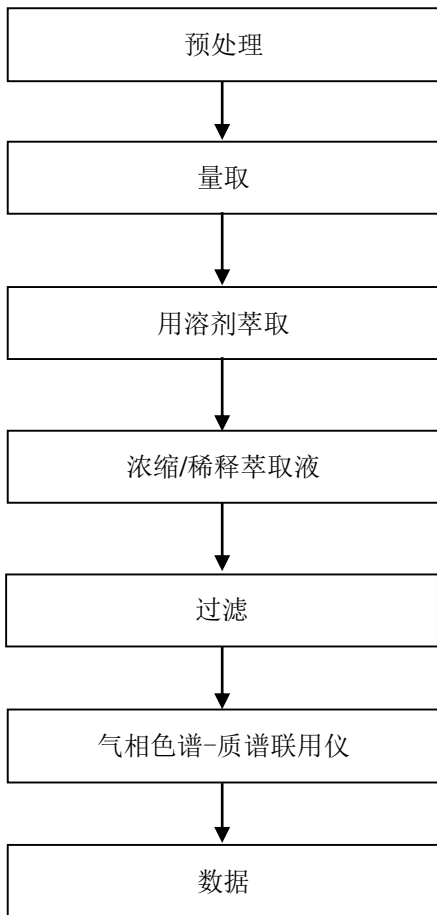
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PBB/PBDE 检测流程图



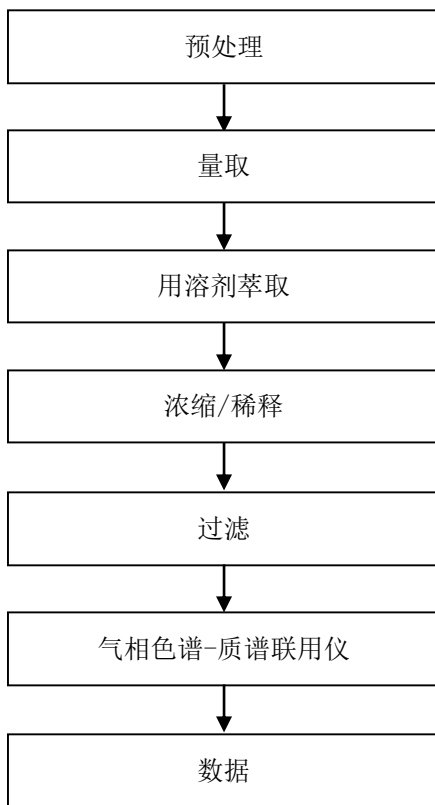
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Phthalates 检测流程图



检测报告

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第8页, 共10页

附件:

UP1-41/1P、UP1-41/2P、UP1-41/3P、UP1-63/1P、UP1-63/2P、UP1-63/3P、UP1-63B/1P、UP1-63B/2P、UP1-63B/3P、UP1-80/1P、UP1-80/2P、UP1-80/3P、UP1-100/1P、UP1-100/2P、UP1-100/3P、UP1-100B/1P、UP1-100B/2P、UP1-100B/3P、UP1-100C/1P、UP1-100C/2P、UP1-100C/3P、UP1-125/1P、UP1-125/2P、UP1-125/3P、UP1-41/1PX、UP1-63/1PX、UP1-100/1PX、UP1-100/1PXT、UP2-41/1P、UP2-41/2P、UP2-41/3P、UP2-41/4P、UP2-63/1P、UP2-63/2P、UP2-63/3P、UP2-63/4P、UP2-63B/1P、UP2-63B/2P、UP2-63B/3P、UP2-63B/4P、UP2-100/1P、UP2-100/2P、UP2-100/3P、UP2-100/4P、UP4-41/1P、UP4-41/2P、UP4-41/3P、UP4-41/4P、UP4-41B/1P、UP4-41B/2P、UP4-41B/3P、UP4-41B/4P、UP4-63/1P、UP4-63/2P、UP4-63/3P、UP4-63/4P、UP4-63B/1P、UP4-63B/2P、UP4-63B/3P、UP4-63B/4P、UP4-100/1P、UP4-100/2P、UP4-100/3P、UP4-100/4P、UP4-100B/1P、UP4-100B/2P、UP4-100B/3P、UP4-100B/4P、UP4-100C/1P、UP4-100C/2P、UP4-100C/3P、UP4-100C/4P、UP5-41/2P、UP5-41/2PT、UP5-41/2P (GD)、UP4-63JH2、UP4-41BJH2、UP4-63JH3、UP4-63JH、UP2-100Y/JH、UP1-63JH、UP1-41JH、UP1-41JH/63JH1、UP1-41JH/63JH2、UP4-63/100CJH、UP1-100JH、UP4-41JH、UP5-41AJH、UP5-41BJH、UP4-63/1PG、UP1-41GZ、UP1-41GY、UP1-63G、UP1-125JH



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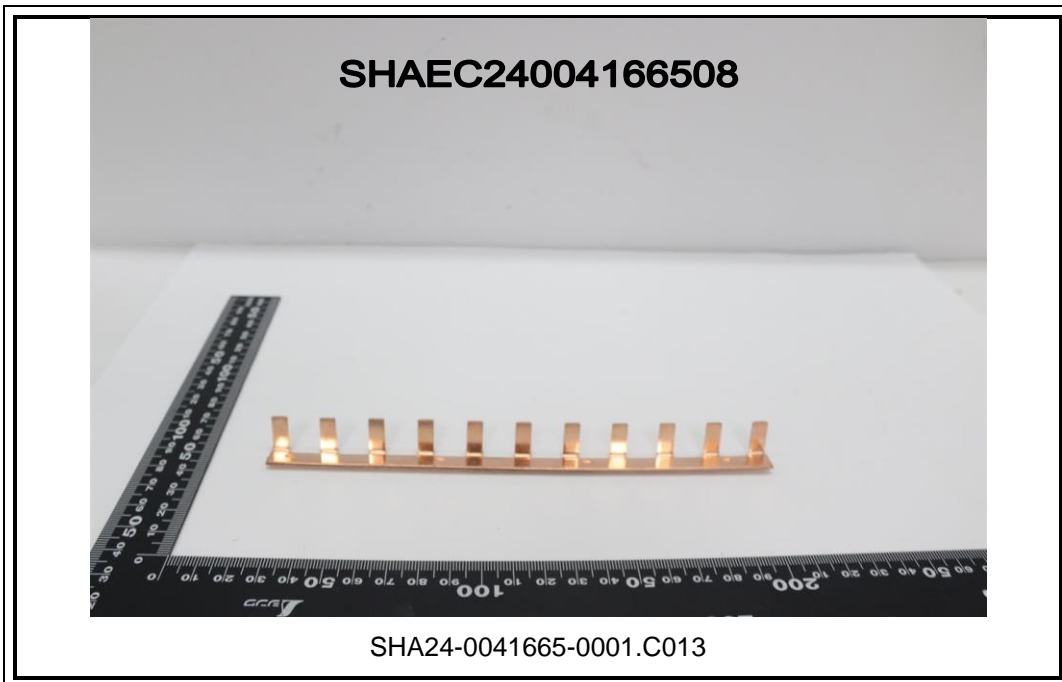
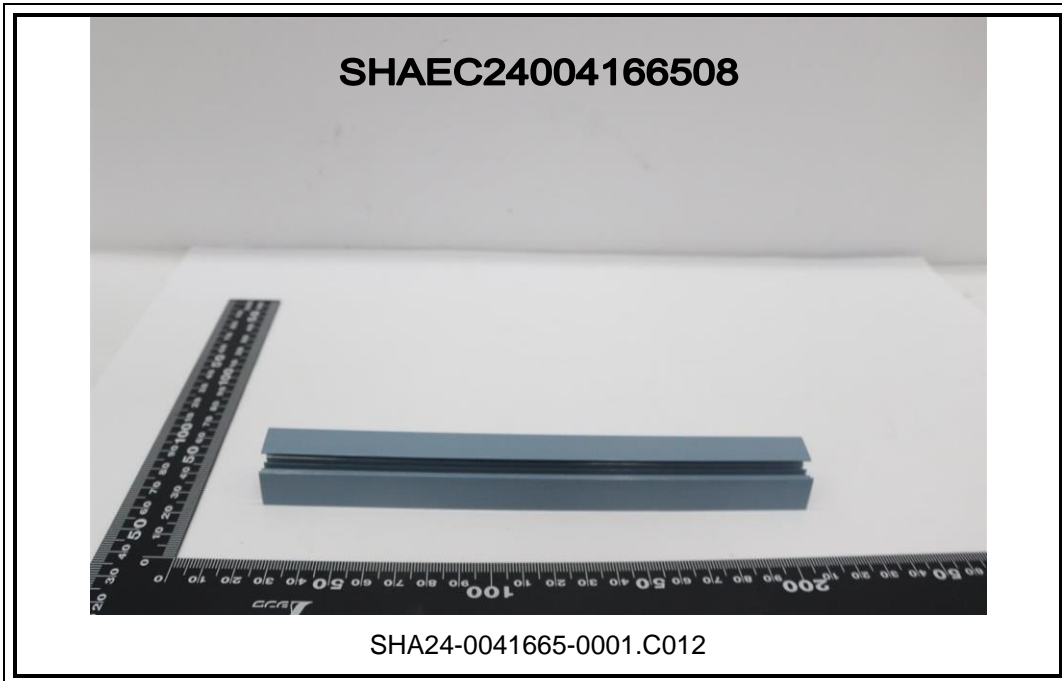
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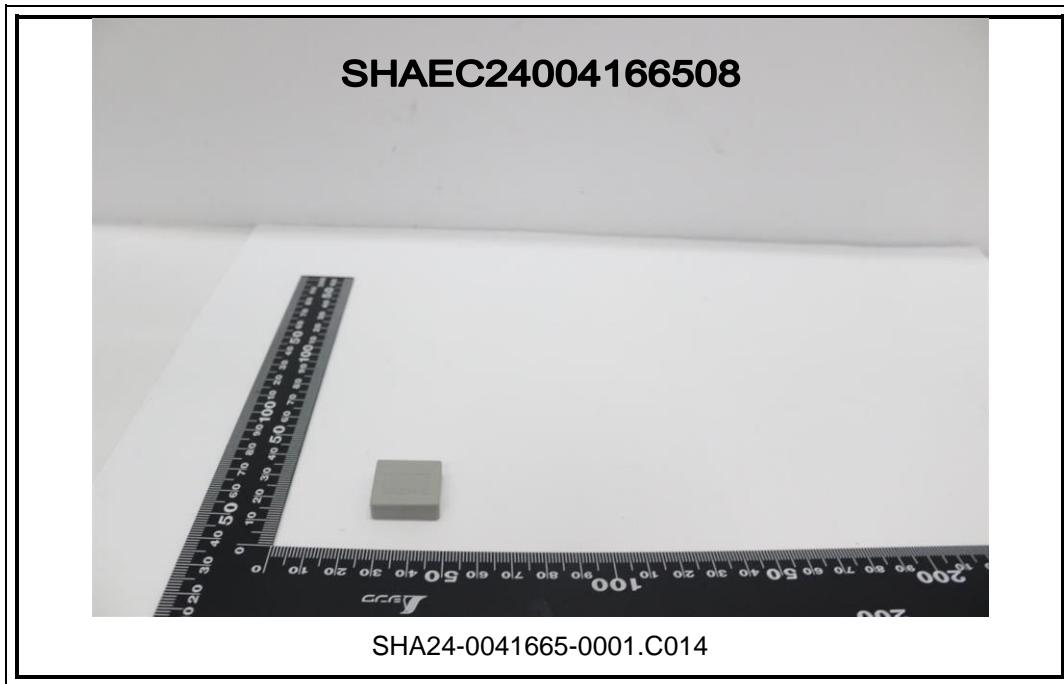
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