

检测报告 编号: SHAEC24004166502 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: 接线端子 型号: UKJ-2.5 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

2024年03月08日~2024年03月18日 检测周期:

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	符合
(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	11) 🗖
异丁酯 (DIBP)	
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六	符合
价铬	17日

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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	A1	SHA24-0041665-0001.C001	灰色固体
SN2	A2	SHA24-0041665-0001.C002	银色金属
SN3	А3	SHA24-0041665-0001.C003	银色金属
SN4	A4	SHA24-0041665-0001.C004	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、六价铬、多溴联苯 (PBB)、多溴 二苯醚 (PBDE)、邻苯二甲酸二(2-乙基已基)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	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	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 (PBDE)	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



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**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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检测项目	限值	单位	MDL	A1
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(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	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。

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	A2	A3	A4
铅 (Pb)	1000	mg/kg	2	8	24500▲	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
镉 (Cd)	100	mg/kg	2	ND	27	ND
六价铬 (Cr(VI))▼	-	μg/cm²	0.10	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。
- 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。

(4) ▲根据客户提供的声明,编号A3中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免,相应豁免条文(请以英文原文为准) |ANNEX III 6(c)|:铜合金中的铅含量不得超过4%。

更多豁免相关信息,可以从以下链接获取:

https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf

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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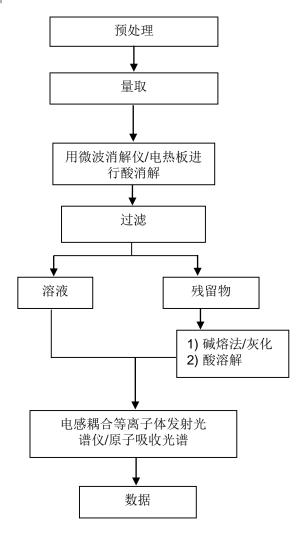
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附件

元素检测流程图

样品按照下述流程被完全消解





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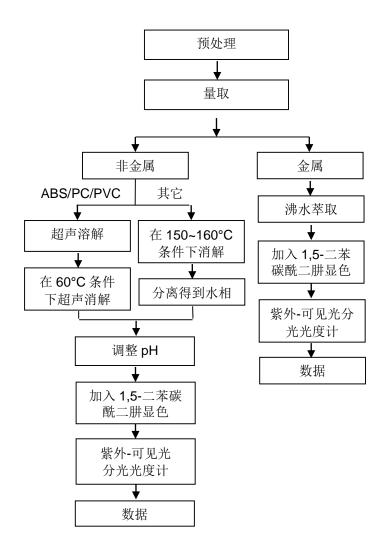
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六价铬检测流程图





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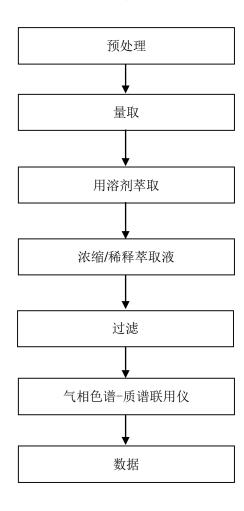
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PBB/PBDE 检测流程图





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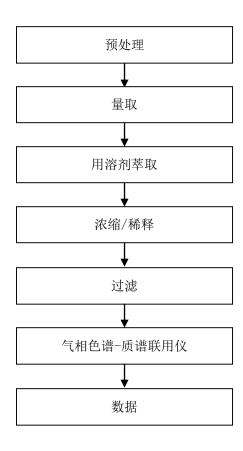


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附件

Phthalates 检测流程图





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附件:

UKJ-1.5,UKJ-1.5E,UKJ-2.5X,UKJ-2.5N,UKJ-2.5NE,UKJ-2.5E,UKJ-2.5EE,UKJ-2.5EE,UKJ-2.5E2,UKJ-4E,UK 4EE,UKJ-6E,UKJ-6EE,UKJ-6,UKJ-10,UKJ-16,UKJ-35,UKJ-95,UKJ-150,UKJ-240,UKJ-10E,UKJ-10EE,UKJ-16EE,UKJ-16EE,UKJ-35E,UKJ-35NE,UKJ-35EE,UKJ-50EE,UKJ-4RDEE,UKJ-4RDXEE,UKJ-2.5XJDE,UKJ-2.5XJDEE,UKJ-2.5JDEE,UKJ-2.5JDEE,UKJ-4JDE,UKJ-4JDEE,UKJ-6JDE,UKJ-6JDEE,UKJ-10JDE,UKJ-4E,UKJ-70,UKJ-16JDEE,UKJ-35JDEE,UKJ-35NJDE,UKJ-35NJDE,UKJ-50JDEE,UKJ-2.5/2-2EE,UKJ-2G4,UKJ-4/2-2EE,UKJ-4/2-2LEE, UKJ-4/2×2LEE ,UKJ-2.5/1×2EE ,UKJ-4/1×2EE,UKJ-35NJD,UKJ-2.5/2×2EE,UKJ-4/2×2EE,UKJ-10/2×2EE,UKJ-4/2-2DEE ,UKJ-4/2-2LDEE,UKJ-2G3,UKJ-35N,UKJ-1.5JD,UKJ-2.5XJD,UKJ-10JDEE,UKJ-16JDE,UKJ-2.5JD,UKJ-4JD, UKJ-6JD, UKJ-10JD,UKJ-16JD,UKJ-35JD,UKJ-16JDE,UKJ-1.5JDE,UKJ-2.5XJDE,UKJ-6SBG,UKJ-2.5JDE,UKJ-4JDE, UKJ-6JDE,UKJ-10JDE,UKJ-2.5/2-2L,UKJ-35JDE,UKJ-35NJDE,UKJ-95JD,UKJ-6JD/N,UKJ-2.5/1×2JD,UKJ-DOKD1.5-TG,UKJ-50,UKJ-16JD/N,UKJ-35JD/N,UKJ-35NJD/N,UKJ-50JD/N,UKJ-2.5/2-2,UKJ-2.5/2×2,UKJ-4/2×2,UKJ-4/2-2,UKJ-4/2-2L,UKJ-4/2×2L,UKJ-2.5/1×2,UKJ-4/1×2,UKJ-10/2×2,UKJ-VIOK1.5,UKJ-4JD/L/L,UKJ-2.5MG,UKJ-2.5/2-2E,UKJ-1.5MT/1×2,UKJ-2.5/1×2E,UKJ-4/1×2E,UKJ-2.5/2-2LE,UKJ-DKD1.5-TG,UKJ-4/2-2E,UKJ-4/2-2LE,UKJ-4/2×2LE,UKJ-50JD,UKJ-10RDE,UKJ-32RD,UKJ-2.5/2×2E,UKJ-4/2×2E,UKJ-10/2×2E,UKJ-4JD/L/LE,UKJ-1.5MT,UKJ-10RD,UKJ-4/1×2JD,UKJ-2.5XG,UKJ-4/2×2JD,UKJ-4/2×2NJD,UKJ-4/2×2LJD,UKJ-2.5SK,UKJ-2.5/1×2JDE,UKJ-W2.5~10G.UKJ-2.5/1×2JDEE.UKJ-4/1×2JDE.UKJ-4/1×2JDEE.UKJ-4/2×2JDE.UKJ-4/2×2JDEE.UKJ-4/2×2NJDE.UKJ-4/2×2LJDE, UKJ-4C,UKJ-6SN,UKJ-6M,UKJ-W2.5~10FG,UKJ-4/2-2LG, UKJ-2.5V/5.08,UKJ-2.5SKE,UKJ-4/2×2SK 4/2×2SK,UKJ-UD1,UKJ-6SG,UKJ-4JD/L/LG,UKJ-6/3×6,UKJ-6/5×6,UKJ-6SB,UKJ-6S,UKJ-1.5MT/2-2,UKS-6SEE,UKJ-4/2×2FDS,UKJ-BJ,UKJ-4/2×2FDS1,UKJ-2.5RD,UKJ-4/2-2RD, UKJ-4/2-2RDG,UKJ-10/2×2G,UKJ-DK1.5FG,UKJ-2.5RDE,UKJ-4RDE,UKJ-4/2-2RDEE,UKJ-2.5RDEE,UKJ-10RDEE,UKJ-W2.5JD,UKJ-4RDXE,UKJ-4RDEE,UKJ-4/2-2RDE,UKJ-2.5M/2×2,UKJ-70JD,UKJ-2.5/1×2G,UKJ-2.5M/2-2,UKJ-1.5MTJD,UKJ-1.5MT/1×2JD,UKJ-1.5MT/2×2JD,UKJ-4RD,UKJ-4MJD,UKJ-6MJD,UKJ-DK1.5,UKJ-DK1.5X,UKJ-DKD1.5,UKJ-DKD1.5X,UKJ-W2.5/2-2G,UKJ-DOK1.5,UKJ-DOK1.5X,UKJ-6SE,UKJ-MG,UKJ-DOK1.5-2D,UKJ-VIOK1.5X,UKJ-B2,UKJ-1.5MT/2×2,UKJ-2.5RDG,UKJ-4/1×2G,UKJ-G(DUK)2,UKJ-W2.5/10FG,UKJ-W2.5/2-2G,UKJ-4/2-2DG,UKJ-4/2-2G,UKJ-4/2×2G,UKJ-VIOK1.5EE,UKJ-DLK2.5/JD,UKJ-UD2,UKJ-DLKB2.5/JD,UKJ-DLK4/JD,UKJ-2.5M,UKJ-4M,UKJ-W2.5,UKJ-W4,UKJ-W2.5/2×2,UKJ-W2.5/2-2,UKJ-W2.5/TC,UKJ-W4JD,UKJ-DKD1.5FG,UKJ-G(DUK),UKJ-W2.5/2×2JD,UKJ-W2.5/2-2D,UKJ-4/2-2D,UKJ-4/2-2LD, UKJ-W2.5/2-2D,UKJ-4/1×2G,UKJ-4/2×2G,UKJ-UTD-D,UKJ-16G,UKJ-B1,UKJ-6MG, UKJ-2G2,UKJ-2G3,UKJ-2G6,UKJ-MD,UKJ-MD1



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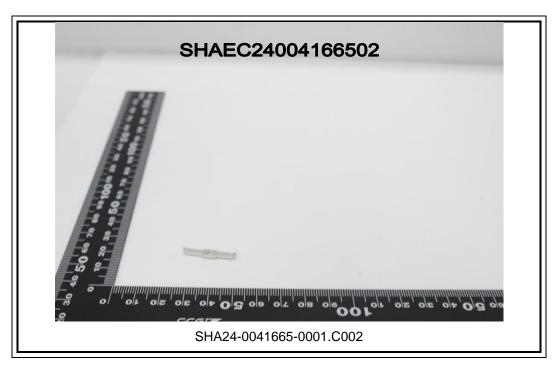


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