

检测报告

编号: SHAEC2204486504

日期: 2022年03月17日 第1页,共11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: SP22-007119 - SH

样品接收日期: 2022年03月11日

检测周期: 2022年03月11日 - 2022年03月17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

结论: 基于所送样品进行的检测, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(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))的检测结果显示符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

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盛雯舒

Sue Sheng 盛雯舒
批准签署人

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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	SHA22-044865.005	灰色固体
SN2	SHA22-044865.006	银色金属
SN3	SHA22-044865.007	银色金属
SN4	SHA22-044865.008	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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

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	005
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	-	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



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检测项目	限值	单位	MDL	005
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
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) 最大允许限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321 系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) 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。

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

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	006	007	008
镉 (Cd)	100	mg/kg	2	ND	11	ND
铅(Pb)	1000	mg/kg	2	30	26961▲	6
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	µg/cm ²	0.10	ND	ND	ND

备注:

(1) 最大允许限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321 系列

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) ▼ = 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;



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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。

(3) ▲根据客户提供的声明, 编号007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%。

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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附页

UKJ-1.5,UKJ-1.5E,UKJ-2.5X,UKJ-2.5N,UKJ-2.5NE,UKJ-2.5E,UKJ-2.5XE,UKJ-2.5EE,UKJ-2.5XEE,UKJ-2.5E2,UKJ-4E,UKJ-4EE,UKJ-6E,UKJ-6EE,UKJ-6,UKJ-10,UKJ-16,UKJ-35,UKJ-95,UKJ-150,UKJ-240,UKJ-10E,UKJ-10EE,UKJ-16E,UKJ-16EE,UKJ-35E,UKJ-35NE,UKJ-35EE,UKJ-50EE,UKJ-4RDEE,UKJ-4RDxEE,UKJ-2.5XJDE,UKJ-2.5XJDEE,UKJ-2.5JDE,UKJ-2.5JDEE,UKJ-4JDE,UKJ-4JDEE,UKJ-6JDE,UKJ-6JDEE,UKJ-10JDE,UKJ-4E,UKJ-70,UKJ-16JDEE,UKJ-35JDE,UKJ-35JDEE,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*2SKE,UKJ-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

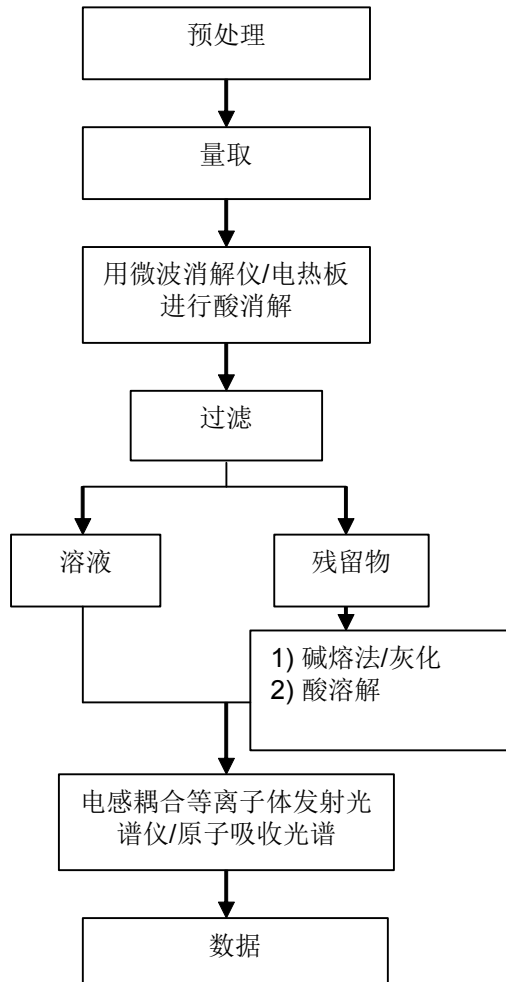


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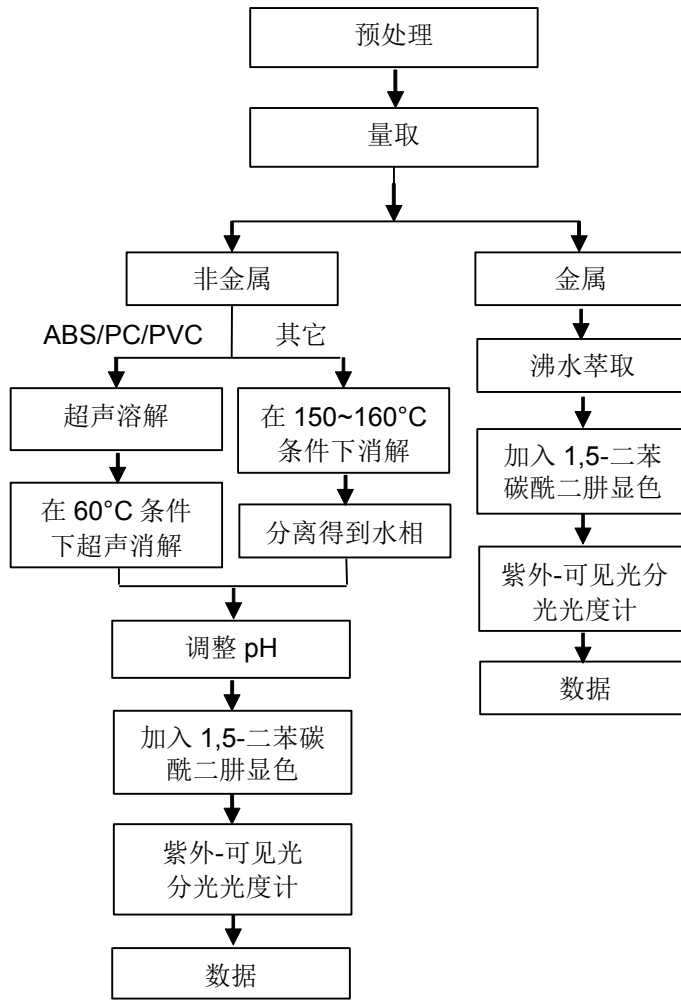
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元素(IEC62321) 检测流程图

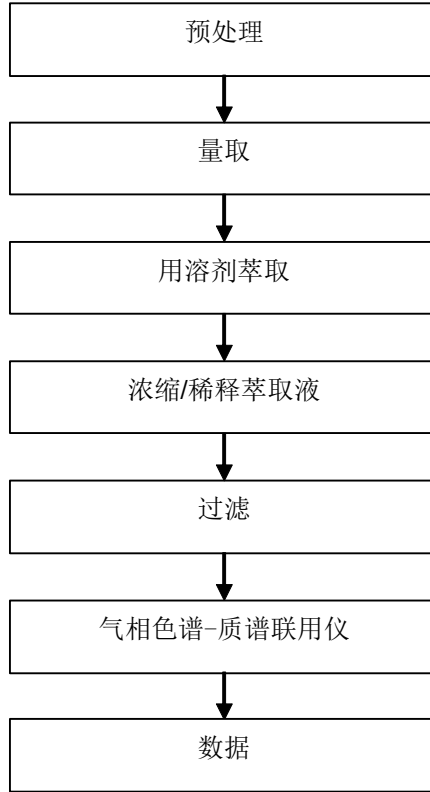
1) 样品按照下述流程被完全消解



六价铬检测流程图



PBBs/PBDEs 检测流程图



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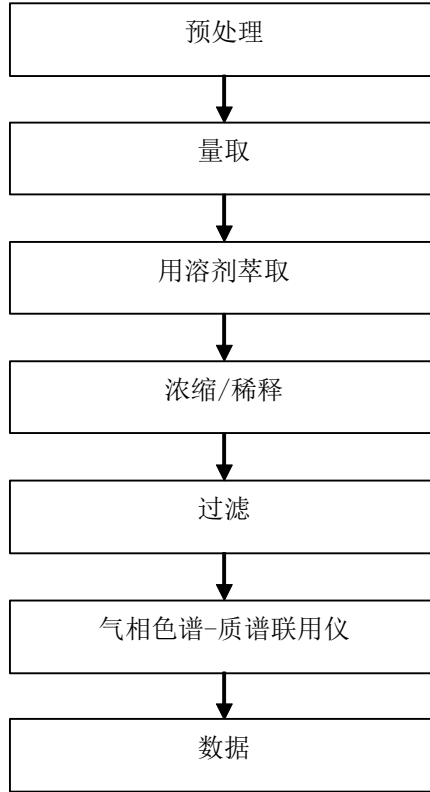
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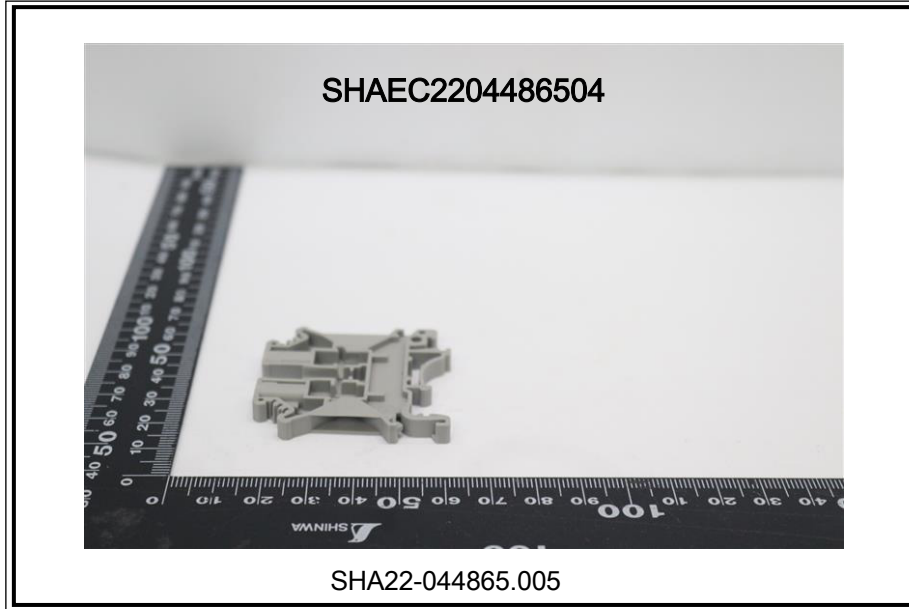
Phthalates 检测流程图



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