检测报告

编号: SHAEC2212689604　　日期: 2022年09月16日　第1页,共17页

客户名称：　江苏中鑫世纪半导体有限公司

客户地址：　江苏省泰州市姜堰区罗塘街道扬帆创业园B3栋

样品名称：　塑封二极管

型号：　塑封二极管

客户参考信息：　整流桥、可控硅、MOS管、功率器件
A-405/DO-41/DO-15/DO-15L/DO-15B/DO-27/R-1/R-3/R-6/SMA/SMB/SMC//SMAF/SMBF/SOD-123FL/SOD-123//SOD-323/SOD-523/SOT-23
GBU/GBP/GBJ/GBL/KBP/KBL/KBJ/KBU/TO-220/ITO220/TO-277A/TO-247/TO-252/TO-263/TO-3P ABS/ABF/MBS/MBF/MBM/TBS/TMB/DB/DBS/DF/DFM/DFS

以上样品及信息由客户提供。

SGS工作编号：　SP22-019212 - SUZ

样品接收日期：　2022年08月28日

检测周期：　2022年08月28日 - 2022年09月07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)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的检测结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务（上海）有限公司
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95122896

Annie Liu刘盈妹
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	SHA22-126896.001	灰色固体
SN2	SHA22-126896.002	银色金属
SN3	SHA22-126896.003	灰色膏体
SN4	SHA22-126896.004	铜色金属
SN5	SHA22-126896.005	铜色金属
SN6	SHA22-126896.006	白色膏体
SN7	SHA22-126896.007	黑色固体
SN8	SHA22-126896.008	银色金属
SN9	SHA22-126896.009	银色液体

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	*001*	*003*	*006*
镉(Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	53921*▲		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	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND

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检测项目	限值	单位	MDL	001	003	006
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	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	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	80
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	007	009
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))	1000	mg/kg	8	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND
一溴联苯	-	mg/kg	5	ND	ND
二溴联苯	-	mg/kg	5	ND	ND
三溴联苯	-	mg/kg	5	ND	ND
四溴联苯	-	mg/kg	5	ND	ND
五溴联苯	-	mg/kg	5	ND	ND
六溴联苯	-	mg/kg	5	ND	ND
七溴联苯	-	mg/kg	5	ND	ND
八溴联苯	-	mg/kg	5	ND	ND
九溴联苯	-	mg/kg	5	ND	ND
十溴联苯	-	mg/kg	5	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND

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检测项目	限值	单位	MDL	007	009
四溴二苯醚	-	mg/kg	5	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND
十溴二苯醚	-	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 。
IEC 62321系列等同于 EN 62321系列

(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。

(3)▲根据客户提供的声明，编号001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 7(c)-I| ：电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅，如压电设备、玻璃或陶瓷基复合元件。

(4)*检测结果仅供参考。

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 62321-7-1:2015，IEC 62321-6:2015和IEC 62321-8:2017，采用ICP-OES，AAS，测汞仪，UV-Vis和GC-MS进行分析。

检测项目	限值	单位	MDL	002	004	005
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2		ND	15
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▾	-	μg/cm²	0.10	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND

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检测项目	限值	单位	MDL	002	004	005
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	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	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	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	008
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	32
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	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
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND

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检测项目	限值	单位	MDL	*008*
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) 最大允许极限值引用自RoHS指令(EU) 2015/863。
IEC 62321 系列等同于 EN 62321 系列
(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；
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。

铅(Pb)

检测方法 : 用滴定法测定.

检测项目	限值	单位	MDL	002
铅 (Pb)	0.1	%	-	93.12▲

检测项目	限值	单位	MDL	003
铅 (Pb)	0.1	%	-	82.48▲

备注 :

(1) ▲根据客户提供的声明，编号002，003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 7(a)|：高熔点型焊料中的铅(如铅含量等于或大于85%的铅基合金焊料)。
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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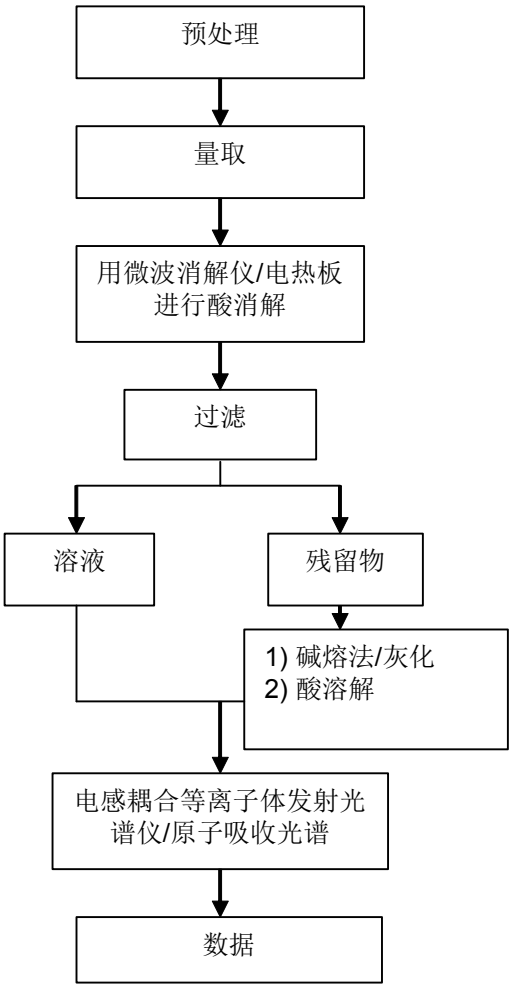
附件

元素(IEC62321) 检测流程图

1) 样品按照下述流程被完全消解



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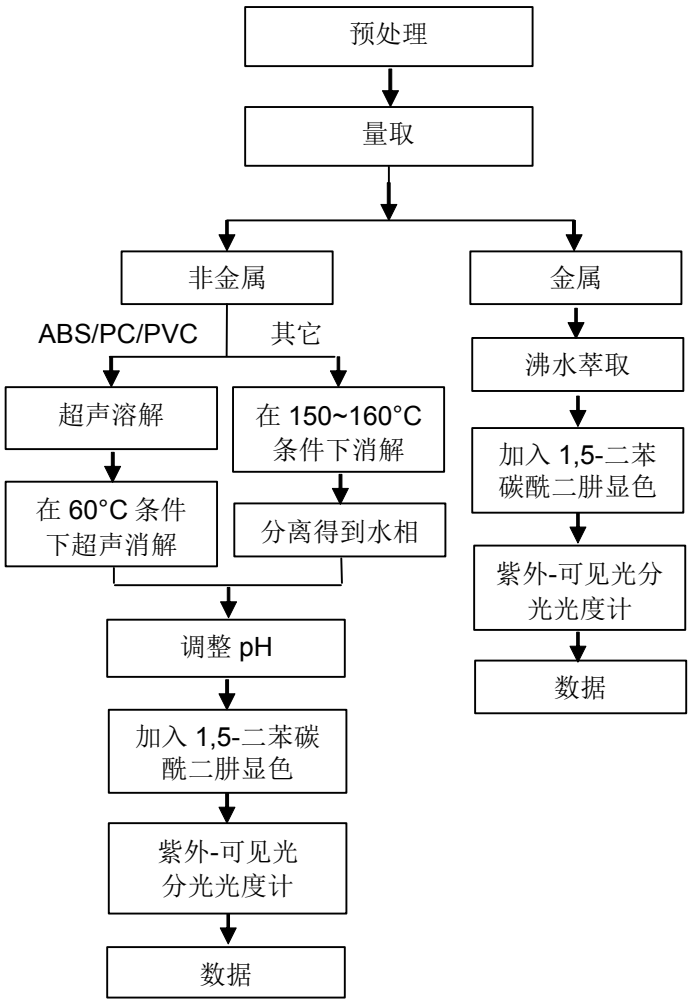
六价铬检测流程图



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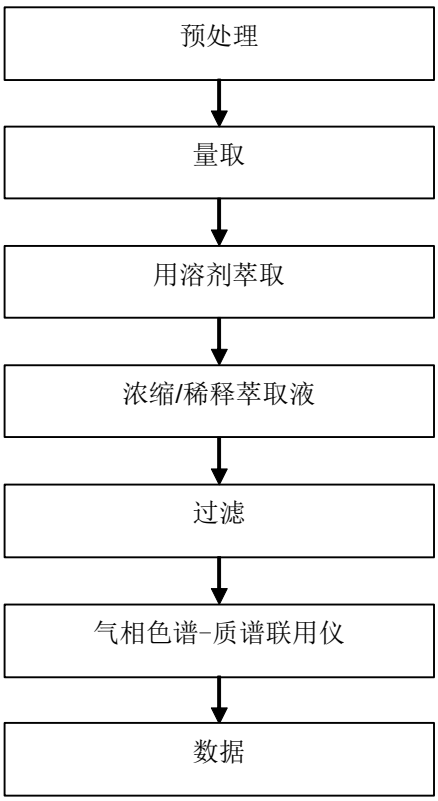
PBBs/PBDEs 检测流程图



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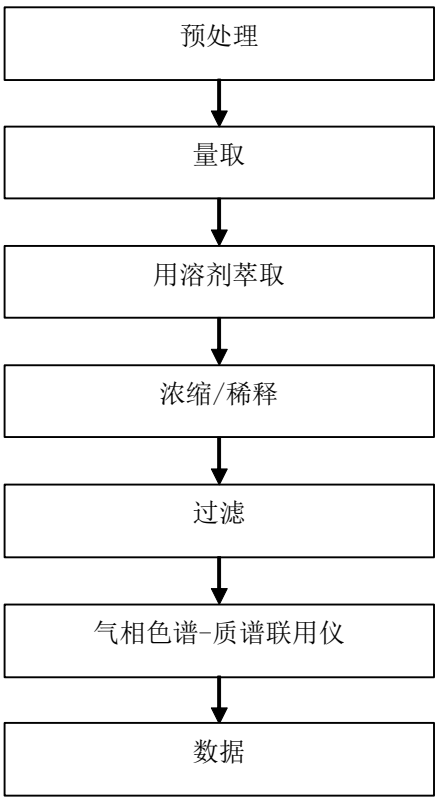
Phthalates 检测流程图



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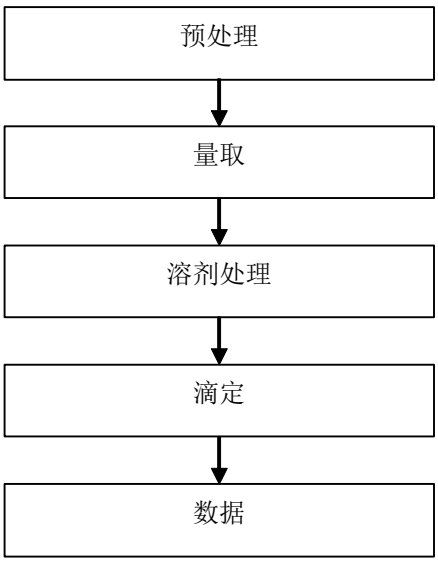
滴定检测流程图



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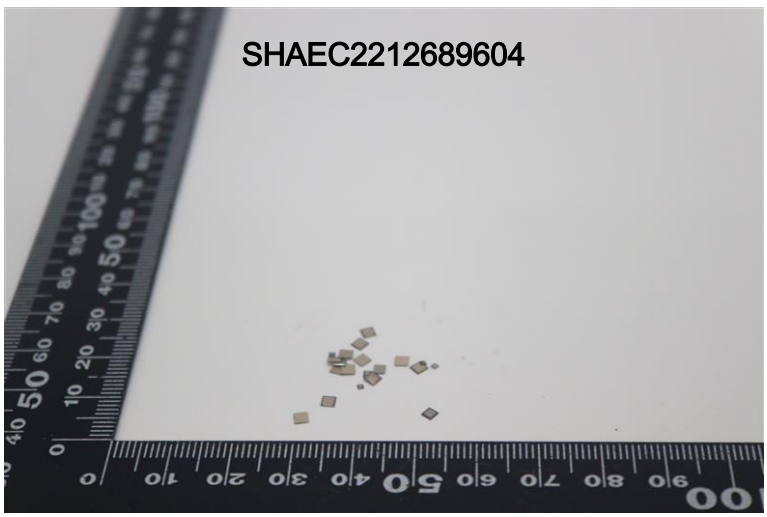

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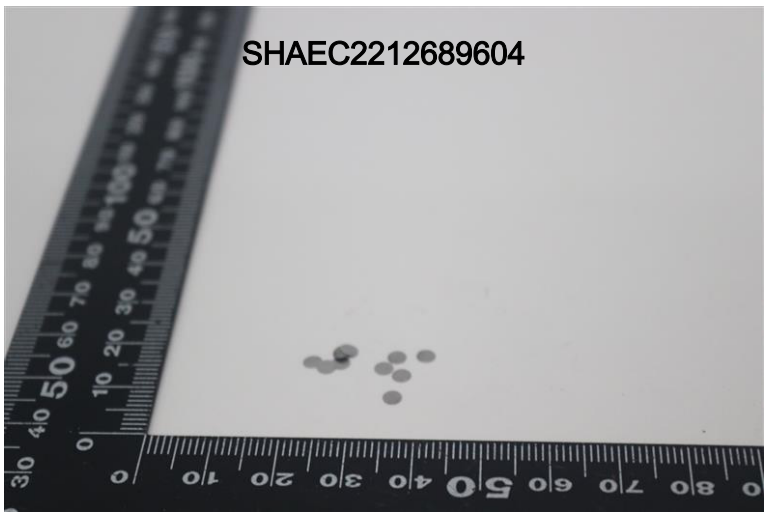

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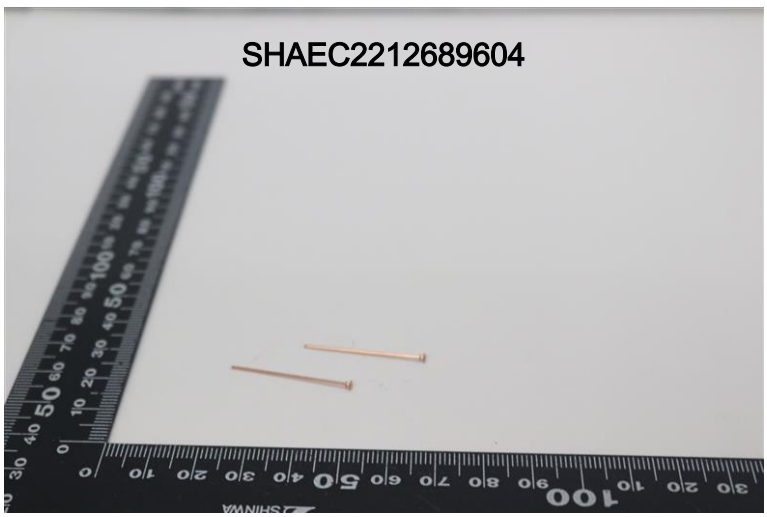

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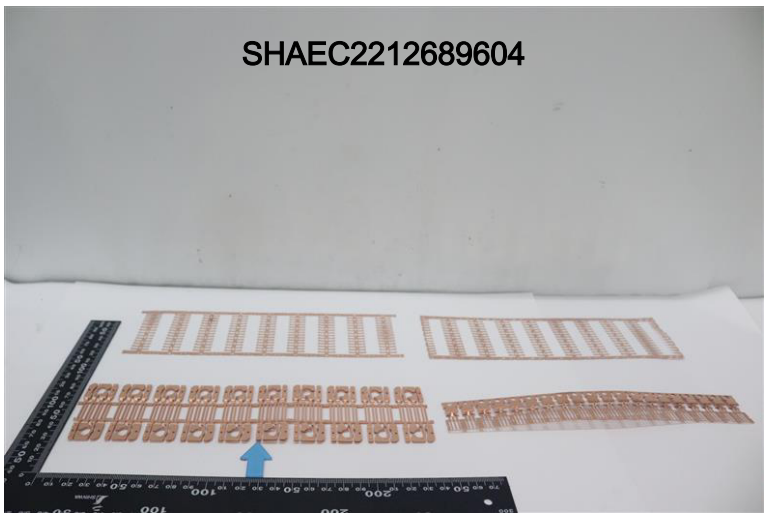

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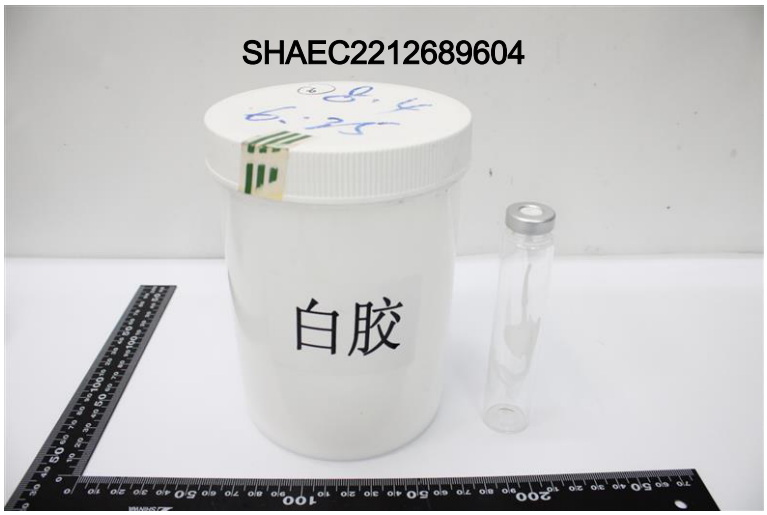

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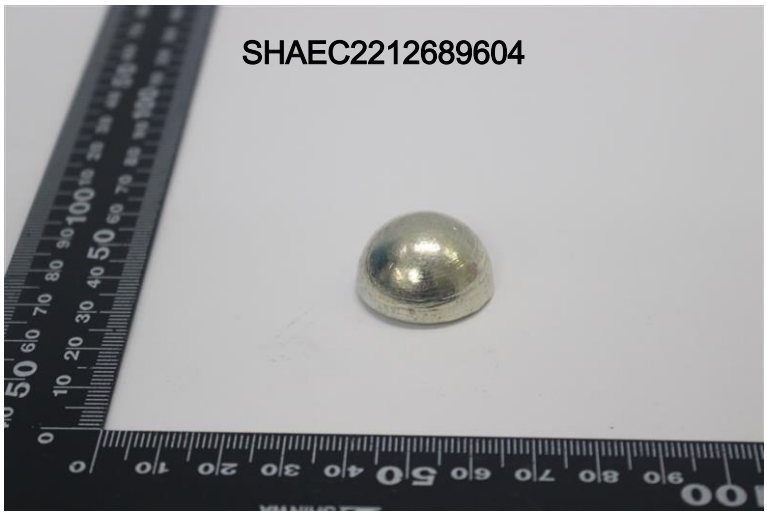

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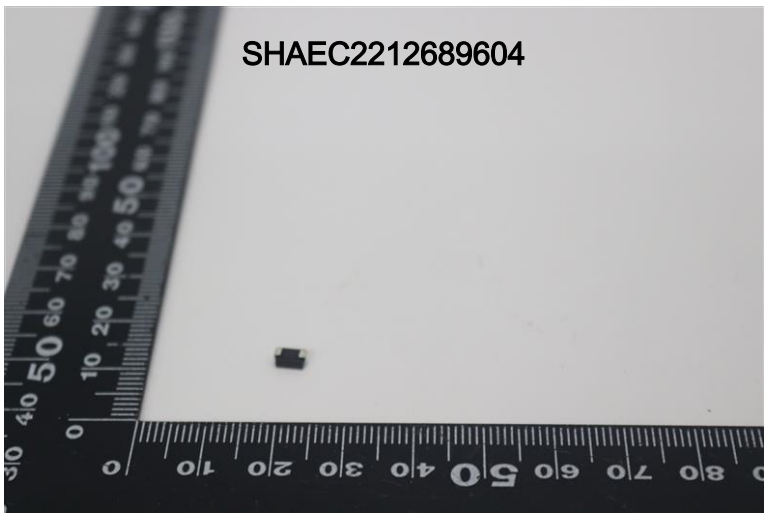

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