

## 测试报告

No. CANML1811044902

日期: 2018年06月08日 第1页,共9页

福建省南平市三金电子有限公司

福建省南平市延平区四鹤街道西溪路64-7号

以下测试之样品是由申请者所提供及确认: 3225可伐上盖

SGS工作编号: XMIN1806003521PC - XM

客户参考信息: 7550,7050,6035,5050,5035,5032,4025,3838, 3333, 3030,3225, 2520, 2016, 1612, 1210 及台阶盖板的电解镍和化镀镍上盖 /铁 镍 钴:

材质: KOVER

规格: 2.65\*1.95\*0.07mm

样品接收日期: 2018年06月04日

测试周期: 2018年06月04日 - 2018年06月08日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 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-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司  
授权签名

许锋华

Luke Xu 许锋华  
批准签署人



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Chemical Laboratory

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测试结果:

### 测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN18-110449.001	带银灰色镀层的金属

备注:

- (3) ND = 未检出 (< MDL)
- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 检测极限值
- (4) "-" = 未规定

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

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

测试项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	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
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	001
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  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(2) ▼=a. 当六价格的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价格;  
 b. 当六价格的浓度为ND(低于0.10 µg/cm²)时, 样品为阴性, 即未检测到六价格;  
 c. 当六价格的浓度介于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格, 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, 样品的六价格测试结果仅能代表测试时样品含六价格的状态。

## 卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

测试项目	单位	MDL	001
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

## 全氟辛酸(PFOA)和全氟辛烷磺酸(PFOS)

测试方法: SGS内部方法 (GZTC CHEM-TOP-062-04, 参考US EPA方法 3550C:2007), 用 LC-MS分析。

测试项目	CAS NO.	单位	MDL	001
全氟辛酸(PFOA)	335-67-1	µg/m²	1.0	ND
全氟辛烷磺酸及其衍生物 (PFOS)^\	-	µg/m²	1.0	ND



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备注:

(1)(EC) No 850/2004 补充指令 (EU) No 757/2010的要求:

第4章 (1) (b) 款适用于PFOS浓度等于或低于10mg/kg (0.001%重量比) 的物质或配制品。

第4章 (1) (b) 款适用于PFOS浓度低于0.1% (重量比) 的半成品, 成品或者它们的部件, 以含有PFOS的结构或特殊部件的局部结构计算, 对于纺织品和其它涂层材料, PFOS的量低于1µg/m<sup>2</sup>。

(2) ^全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2- (N-乙基全氟辛基磺酰胺) 乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSA)、N-乙基全氟辛烷磺酰胺(EtFOSA)和2- (N-甲基全氟辛基磺酰胺) 乙醇(MeFOSE)。

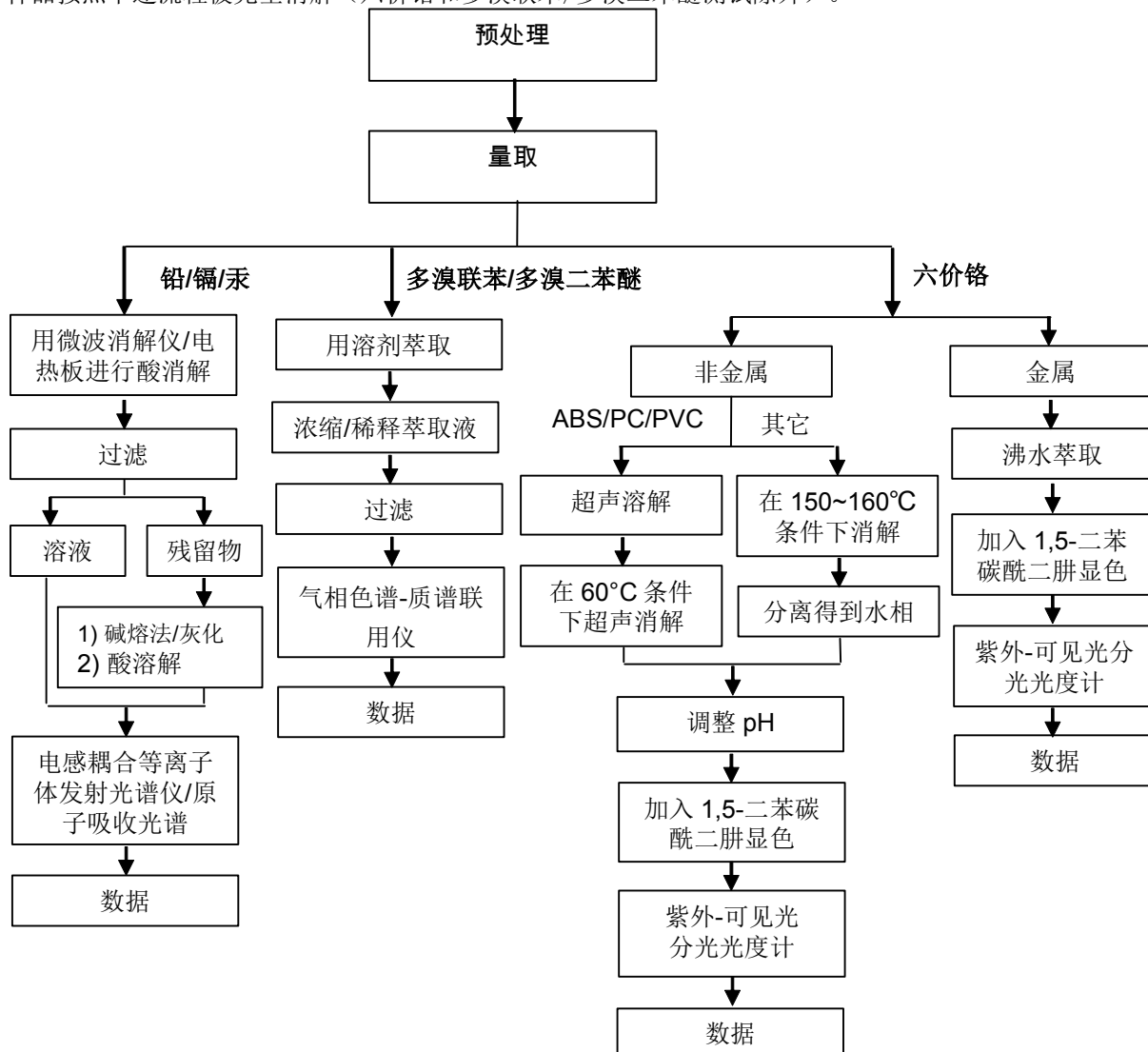




## 附件

Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs 测试流程图

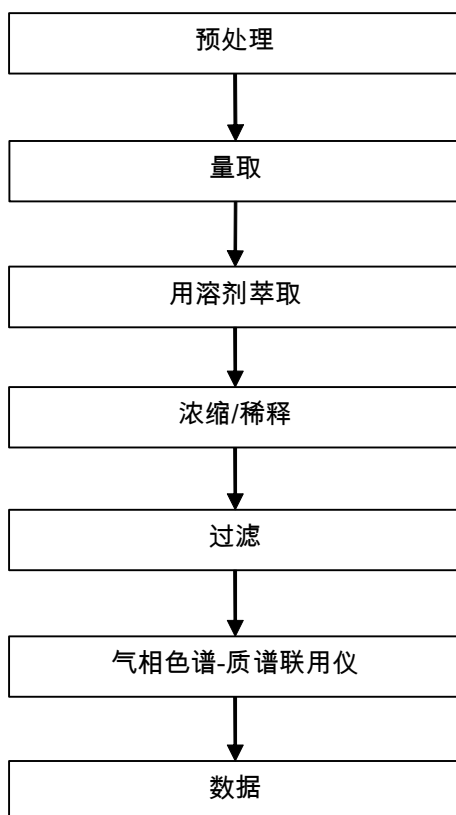
- 1) 分析人员: 张梓路 / 胡香云
- 2) 项目负责人: 汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。



## 附件

## Phthalates 测试流程图

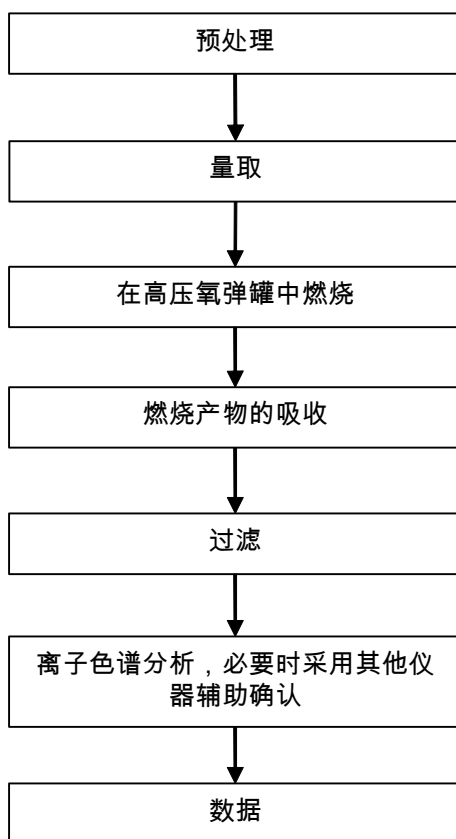
- 1) 分析人员: 胡香云  
2) 项目负责人: 刘琼



## 附件

### Halogen 测试流程图

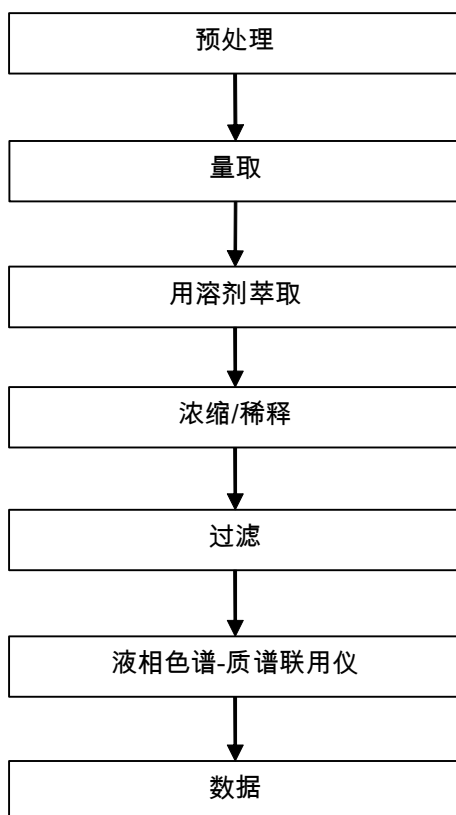
- 1) 分析人员：肖戈
- 2) 项目负责人：汪丹



## 附件

### PFOA / PFOS 测试流程图

- 1) 分析人员: 王志红
- 2) 项目负责人: 刘琼





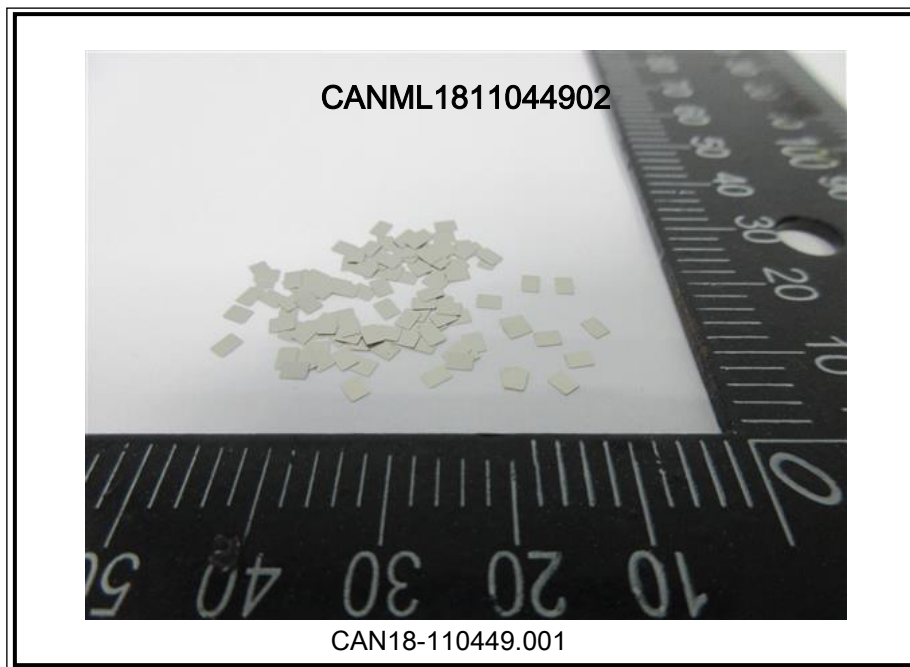
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