

No. CANEC1500384224

日期: 2015年01月14日 第1页,共8页

云南锡业股份有限公司

中国云南省昆明市高新技术产业开发区昌源中路49号

以下测试之样品是由申请者所提供及确认:无铅焊料

SGS工作编号: CP15-001097 - GZ

测试样品信息: SnCu

客户参考信息: 丝, 条, 粉, 膏, SnCu3.0, SnCu0.7, SnCu0.5, SnCu0.3 等

样品接收日期: 2015年01月08日

测试周期: 2015年01月08日 - 2015年01月14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)的测试结果符合欧盟RoHS指令2002/95/EC的重订指令2011/65/EU附

录Ⅱ的限值要求。

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Echo Yeung杨谷毅 批准签署人

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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 CAN15-003842.012 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

### RoHS<u>指令</u>2011/65/EU

测试方法: (1)参考IEC 62321-5:2013,用ICP-OES测定镉的含量

> (2)参考IEC 62321-5:2013,用ICP-OES测定铅的含量 (3)参考IEC 62321-4:2013,用ICP-OES测定汞的含量

(4)参考IEC 62321:2008,用点测试法/紫外-可见分光光度计比色法测定六价铬的含量

(5)参考IEC 62321:2008,用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>012</u>
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	67
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	$\Diamond$	阴性
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



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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>012</u>
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

#### 备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◊点测试法:

阴性= 未检测到六价铬, 阳性= 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬; 表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

### 六溴环十二烷(HBCDD)

测试方法: 参考IEC 62321:2008, 用GC-MS分析。

 测试项目
 单位
 MDL
 012

 六溴环十二烷(HBCDD)
 mg/kg
 10
 ND

备注:

(1) 参考信息: RoHS指令2002/95/EC的重订指令2011/65/EU:

六溴环十二烷(HBCDD)被列为需优先进行风险评估和考虑进行限制的物质。

### 邻苯二甲酸盐(或酯)

测试方法: 参考EN 14372: 2004的方法测定, 采用GC-MS进行分析.

<u>测试项目</u> <u>CAS NO.</u> <u>单位</u> <u>MDL</u>



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测试项目CAS NO.单位MDL012邻苯二甲酸二丁酯 (DBP)84-74-2%(w/w)0.003ND

邻苯二甲酸丁苄酯 (BBP) 85-68-7 %(w/w) 0.003 ND

邻苯二甲酸二(2-乙基己基)酯 117-81-7 %(w/w) 0.003 ND

(DEHP)

#### 备注:

(1) 参考信息: RoHS指令2002/95/EC的重订指令2011/65/EU:

邻苯二甲酸二(2-乙基己基)酯(DEHP),邻苯二甲酸丁酯苄酯(BBP)和邻苯二甲酸二丁酯(DBP)被列为需优先进行风险评估和考虑进行限制的物质。



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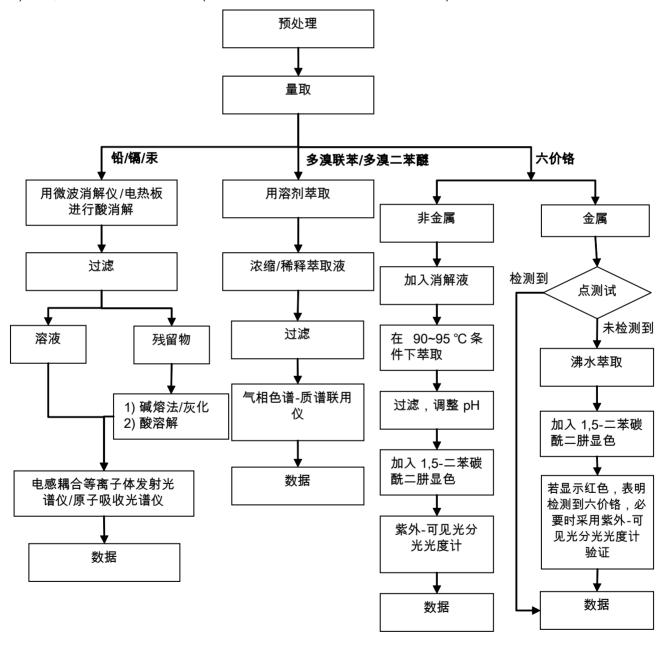
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# 附件

## RoHS 测试流程图

1) 分析人员: 肖戈/ 胡香云2) 项目负责人: 汪丹/ 余晓璐

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)。





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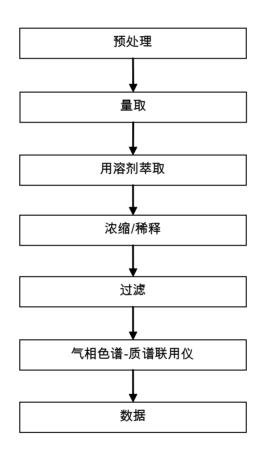
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## HBCDD 测试流程图

1) 分析人员:胡香云 2) 项目负责人:余晓璐





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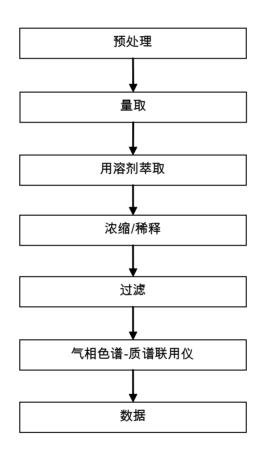
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# Phthalates 测试流程图

1) 分析人员:胡香云 2) 项目负责人:余晓璐





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