

测试报告 No. CANEC1111933301 日期: 2011年12月20日 第1页,共9页

深圳市盛联焊锡制品有限公司 中国深圳市宝安区湖滨路新乐工业园**3栋3**楼

以下测试之样品是由申请者所提供及确认:无铅锡丝

SGS工作编号: CP11-013411 - SZ

测试样品信息: Sn99.3-Cu0.7

客户参考信息: Sn96.5-Ag3.0-Cu0.5

样品接收日期: 2011年12月14日

测试周期: 2011年12月14日 - 2011年12月20日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 演参见下一页 请参见下一页

结论: A:基于所送样品进行的测试,铅、镉、汞、六价铬、多溴联苯、多溴二苯醚的测

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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Merry

Merry Lv吕爱凤 批准签署人

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测试结果:

样品部件外观描述:

样品编号SGS样品ID描述1CAN11-119333.001银色金属线

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 检测极限值

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

<u>A: RoHS指令2011/65/EU</u>

测试方法: 参考IEC 62321:2008:

(1) 用ICP-OES测定镉的含量. (2) 用ICP-OES测定铅的含量.

(3) 用ICP-OES测定汞的含量.

(4) 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) 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1,000	mg/kg	2	51
汞(Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	\Diamond	Negative
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

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<u>测试项目</u>	<u>限值</u>	单位	<u>MDL</u>	<u>001</u>	
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	

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◇ =a. Negative为未检测到六价铬;
 - b. Positive 为检测到六价铬.

针对金属表面的防腐涂层: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代表测试时样品的状态.

B:卤素

测试方法: 参照EN 14582:2007方法测定, 采用IC进行分析,

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
氟 (F)	-	mg/kg	50	ND
氯 (CI)	-	mg/kg	50	125
溴 (Br)	-	mg/kg	50	56
碘 (I)	-	mg/kg	50	ND

C:六溴环十二烷(HBCDD)

测试方法: 参考IEC 62321:2008, 采用GC-MS分析六溴环十二烷含量.

 测试项目
 限值
 单位
 MDL
 001

 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.

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D: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>单位</u>	<u>MDL</u>	<u>001</u>
邻苯二甲酸二丁酯 (DBP)	%(w/w)	0.003	ND
邻苯二甲酸丁酯苄酯 (BBP)	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙基己基) (DEHP)	%(w/w)	0.003	ND

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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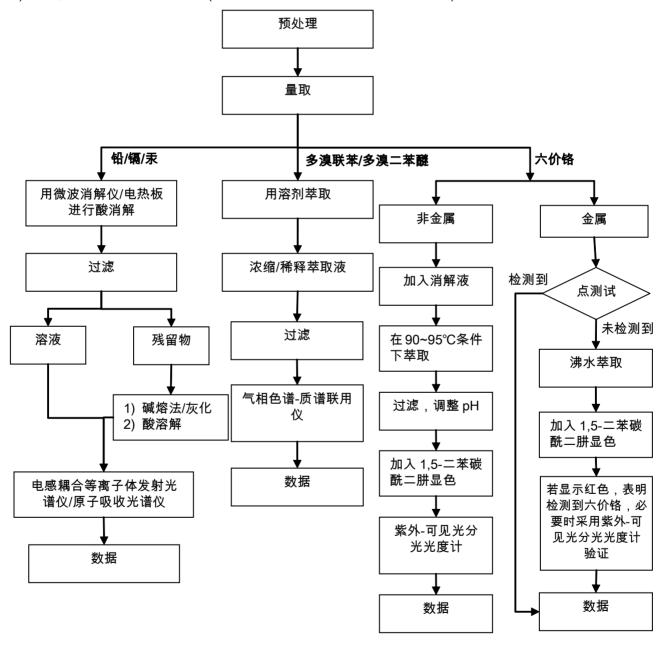
附件

RoHS 测试流程图

1) 分析人员:汪丹/余晓璐/詹达琦

2) 项目负责人:余奕东/杨伟兴

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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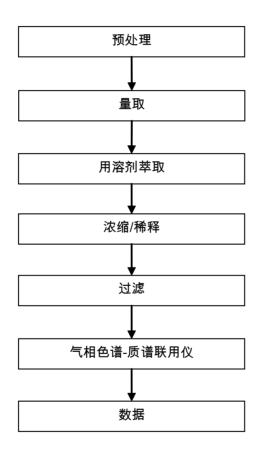
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附件

Phthalates 测试流程图

1) 分析人员:赵瑞娜 2) 项目负责人:杨伟兴



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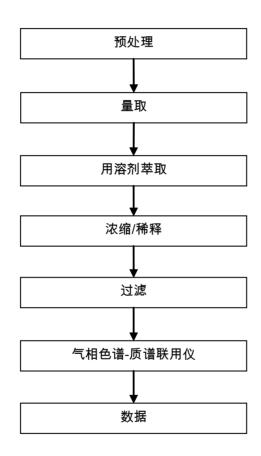
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附件

HBCDD 测试流程图

1) 分析人员: 余晓璐 2) 项目负责人:杨伟兴



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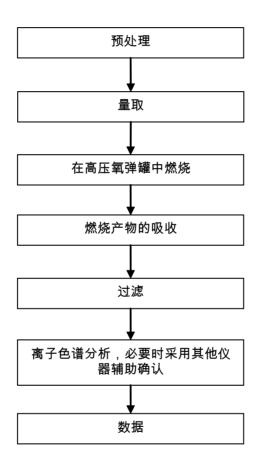
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附件

Halogen 测试流程图

1) 分析人员:宋一波 2) 项目负责人: 乔俊娟



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