

No. SHAEC1515208101

日期: 2015年08月03日 第1页,共6页

苏州威禾有色金属有限公司 苏州工业园区和顺路**77**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:	SP15-025845 - SUZ				
型号:	SnAgCu				
客户参考信息:	丝/条/球/SAC305/SAC300/SAC0307/SAC0300/SnCu0.7/Sn/SnAgNi/SnAg/SnNi				
样品接收日期:	2015年07月31日				
测试周期:	2015年07月31日 - 2015年08月03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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Marry Ma马广媛 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	SHA15-152081.001	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

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

		34.13		/
测试项目	<u>限值</u>	<u>单位</u>	MDL	<u>001</u>
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	40
汞 (Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	-	-	$\diamond$	阴性
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



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测试报告 No. SHAEC1515208101 日期: 2015年08月03日 第3页.共6页 测试项目 限值 单位 MDL 001 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 5 mg/kg ND 七溴二苯醚 5 ND mg/kg 八溴二苯醚 5 ND mg/kg 九溴二苯醚 5 ND mg/kg 十溴二苯醚 5 ND mg/kg

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.

#### 全氟辛烷磺酰基化合物(PFOS)和全氟辛酸(PFOA)

测试方法: 参照US EPA 3550C: 2007 方法测定, 采用HPLC-MS进行分析.

测试项目	<u>限值</u>	<u>单位</u>	MDL	<u>001</u>
全氟辛烷磺酰基化合物 (PFOS)- 酸,金属盐和酰胺	1000	mg/kg	10	ND
全氟辛酸 (PFOA)	-	mg/kg	10	ND

备注:

最大允许限制引用自(EC) No. 850/2004的修订指令欧盟决议(EU) No. 757/2010.



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附件

#### RoHS 测试流程图

1) 分析人员: 张小波/徐刚/朱增珍/秦兴章

2) 项目负责人: 施青/金黎霞/黄婷/陈怀磊

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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附件

### PFOS/PFOA 测试流程图

分析人员:杨占君
 项目负责人:马永存





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