



测试报告

No. SHAEC1516821306

日期: 2015年08月26日 第1页,共5页

中核华原(上海)钛白有限公司(安徽金星钛白(集团)有限公司,无锡豪普钛业有限公司)
上海市浦东新区祖冲之路2290弄展想广场1001室(安徽省马鞍山市慈湖经济开发区新化路1号,无锡市锡山区锡北镇张泾工业园)

以下测试之样品是由申请者所提供及确认:二氧化钛

SGS工作编号: SP15-027813 - SH
型号: R-215
客户参考信息: R-216,R-217,R-218,R-219,R-915,R-916,R-918,R-919,RM-1
样品接收日期: 2015年08月20日
测试周期: 2015年08月20日 - 2015年08月26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

通标标准技术服务(上海)有限公司
授权签名

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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 | SHA15-168213.002 | 白色粉末 |

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 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量

| 测试项目 | 限值 | 单位 | MDL | 002 |
|----------------|------|-------|-----|-----|
| 镉(Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | ND |
| 汞(Hg) | 1000 | mg/kg | 2 | ND |
| 六价铬(CrVI) | 1000 | mg/kg | 2 | 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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| 测试项目 | 限值 | 单位 | MDL | 002 |
|-------|----|-------|-----|-----|
| 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.

美国材料与试验协会-ASTM F 963-11 - 基材中的总铅含量

测试方法: 参照CPSC试验方法: CPSC Test Method: CPSC-CH-E1002-08.3., 采用AAS进行分析.

| 测试项目 | 限值 | 单位 | MDL | 002 |
|--------|-----|-------|-----|-----|
| 铅 (Pb) | 100 | mg/kg | 20 | ND |

美国材料与试验协会-ASTM F 963-11 - 基材/油墨或涂层中的可溶性重金属含量

测试方法: 可溶性重金属含量(目录4.3.5)- 根据ASTM F 963-11 (目录8.3)样品用稀盐酸萃取,采用ICP-OES进行分析.

| 测试项目 | 限值 | 单位 | MDL | 002 |
|-----------|------|-------|-----|-----|
| 可溶性铅(Pb) | 90 | mg/kg | 5 | ND |
| 可溶性锑 (Sb) | 60 | mg/kg | 5 | ND |
| 可溶性砷 (As) | 25 | mg/kg | 2.5 | ND |
| 可溶性钡 (Ba) | 1000 | mg/kg | 10 | ND |
| 可溶性镉(Cd) | 75 | mg/kg | 5 | ND |
| 可溶性铬 (Cr) | 60 | mg/kg | 5 | ND |
| 可溶性汞 (Hg) | 60 | mg/kg | 5 | ND |
| 可溶性硒 (Se) | 500 | mg/kg | 10 | ND |

备注:

- (1) 结果经分析调整.



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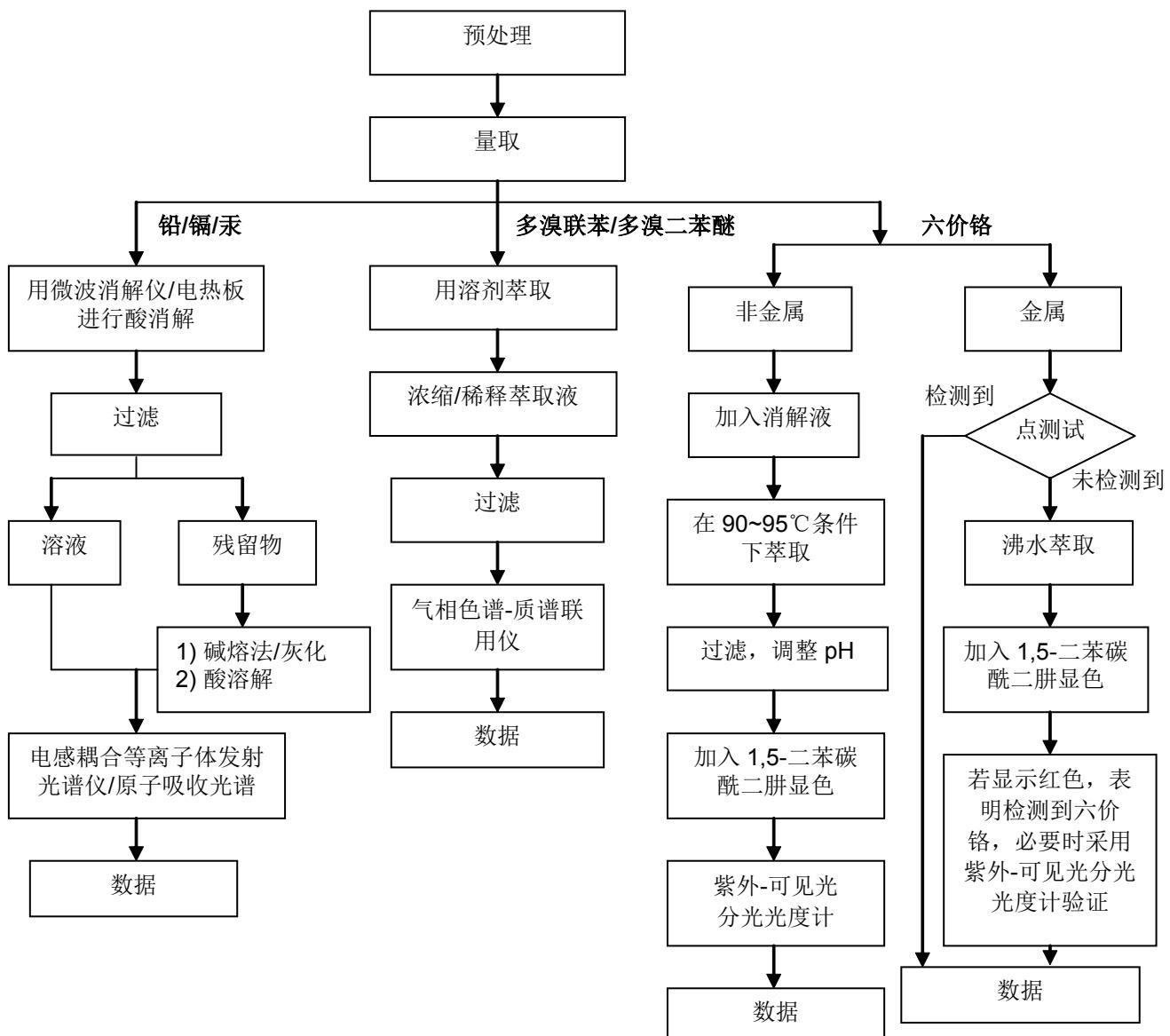
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附件

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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*** 报告完 ***



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