

## 测试报告

No. SHAEC1307265416 A01

日期: 2013年05月22日

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宝山钢铁股份有限公司

上海同济路1800号

此报告替代原来编号为SHAEC1307265416 日期为2013/05/13的报告

以下测试之样品是由申请者所提供及确认: 电镀锌板 (无铬钝化+涂油)

SGS工作编号: SP13-011722 - SH

样品接收日期: 2013年04月26日

测试周期: 2013年04月26日 - 2013年05月04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: 基于所送样品的指定部位进行的测试, 镉、铅、汞、六价铬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。

通标标准技术服务有限公司

授权签名



JJ Fan 范晶捷

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
1	SHA13-072654.056	银灰色金属板
2	SHA13-072654.057	银灰色金属板

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

### RoHS指令2011/65/EU

- 测试方法:
- (1) 酸洗脱镀层,参考IEC62321:2008测定镉,铅,汞,用ICP-OES进行分析.
  - (2) 参照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.

测试项目	限值	单位	MDL	056
铅(Pb)	1000	mg/kg	10	40
镉(Cd)	100	mg/kg	10	ND
汞(Hg)	1000	mg/kg	10	ND
六价铬(CrVI)	-	-	◇	阴性

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= 镀层中未检测到六价铬,阳性 = 镀层中检测到六价铬;
    - (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 = 镀层中未检测到六价铬
      - 阳性 = 镀层中检测到六价铬; 表明50 cm<sup>2</sup>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.

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测试项目	限值	单位	MDL	057
全氟辛烷磺酰基化合物 (PFOS)- 酸,金属盐和酰胺	1	µg/m <sup>2</sup>	1	ND
全氟辛酸 (PFOA)	-	µg/m <sup>2</sup>	1	ND

备注:

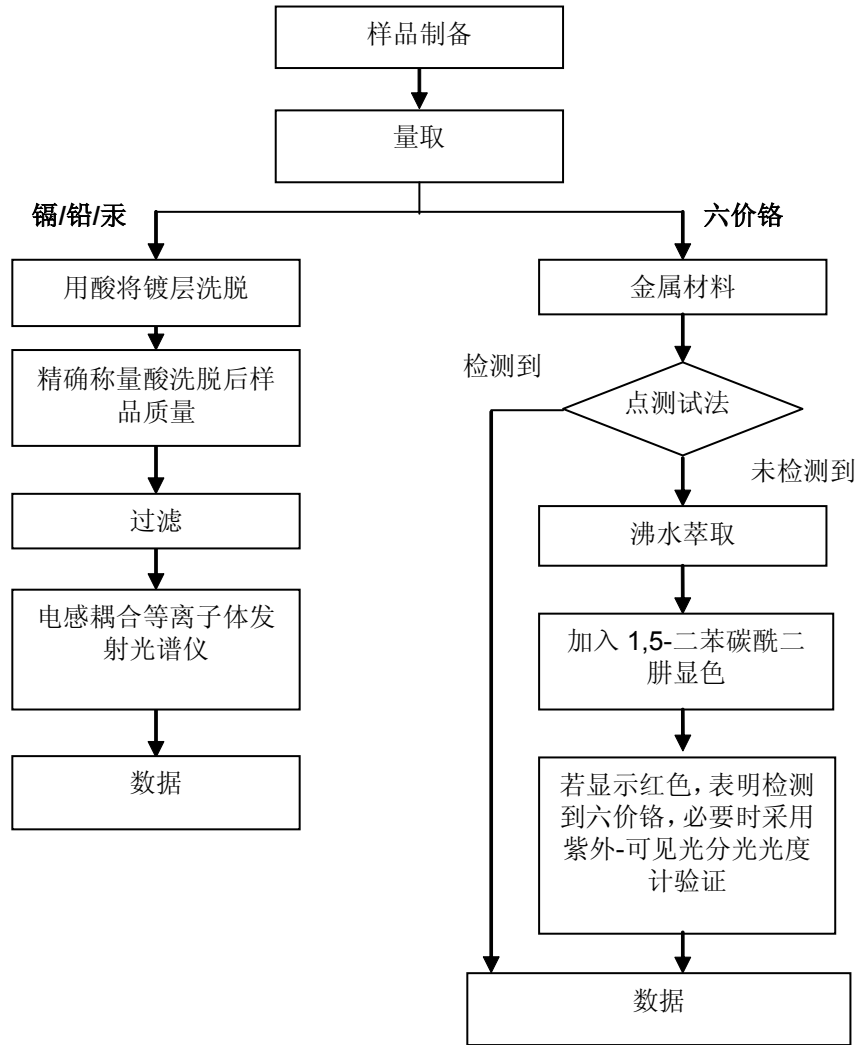
最大允许限制引用自(EC) No. 850/2004 的修订指令欧盟决议(EU) No. 757/2010.

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附件

### 镀层 Pb/Cd/Hg/Cr<sup>6+</sup>测试流程图

- 1) 分析人员: 王彦青/肖飞
- 2) 项目负责人: 张春华/徐亮
- 3) 铅、镉、汞的酸洗脱测试为完全消解。

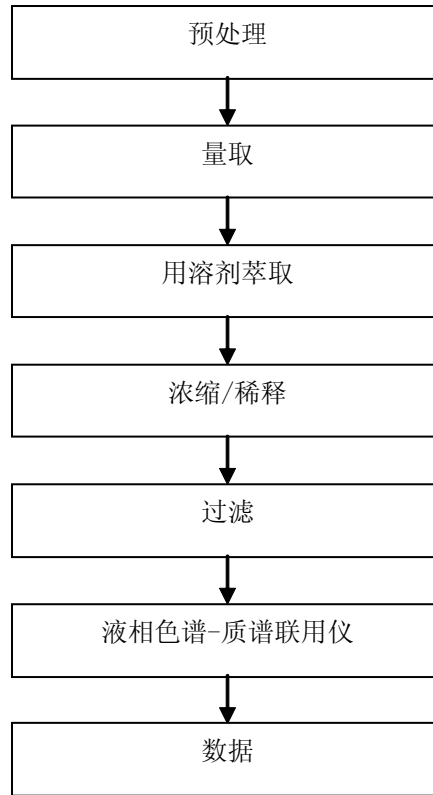


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## PFOS/PFOA 测试流程图

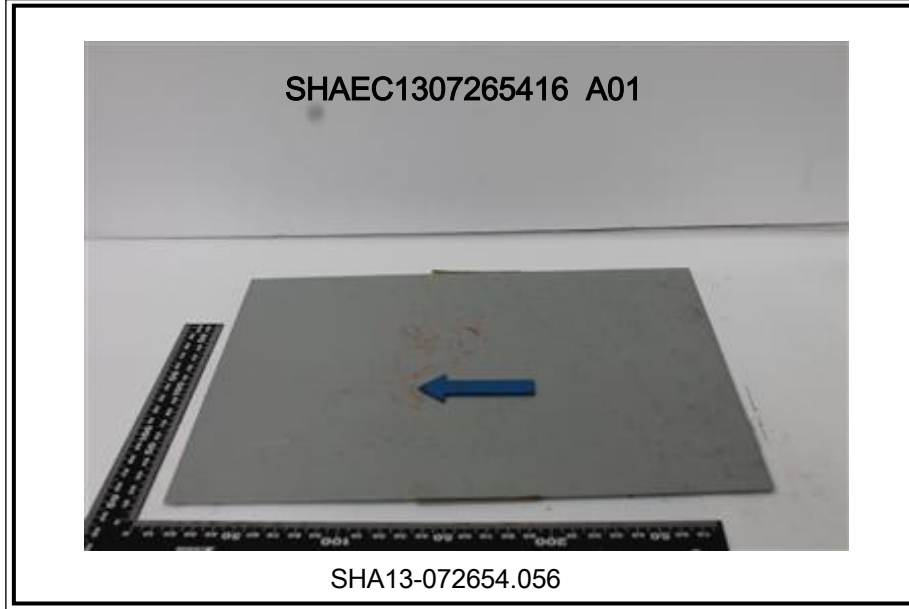
- 1) 分析人员: 李晓茹
- 2) 项目负责人: 马永存



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