

## 测试报告 (SVHC)

No. SHAEC1107638904

日期: 2011年05月27日 第1页,共6页

宝山钢铁股份有限公司  
上海同济路1800号

以下测试之样品是由申请者所提供及确认: 镀铝锌(无铬钝化)

SGS工作编号: SP11-013382 - SH  
样品接收日期: 2011年05月24日  
测试周期: 2011年05月24日 - 2011年05月27日  
测试要求: 根据客户要求,  
(i) 基于欧洲化学品管理署截止2010年12月15日公布的供授权审议的高关注物质候选清单(根据欧盟第1907/2006号REACH法规), 对几种高关注物质进行筛分测试  
测试结果: 请参见下一页  
总结:

根据具体的测试范围和分析技术, 样品中测试的高关注物质浓度都 $\leq$  0.1%.

PASS

通标标准技术服务有限公司  
授权签名



Fan Jingjie, JJ范晶捷  
批准签署人

本报告是发布日期为2011年05月27日编号为SHAEC1107638903 英文检测报告的中文译本。如有异议, 以英文版本为准。

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日期: 2011年05月27日 第2页,共6页

### 备注:

- (1) 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。  
[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)  
这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。
- (2) 根据欧盟第1907/2006 ( EC ) 号法规, 如果满足以下两个条件, 如果物质符合第57条中的标准并根据第59条第一款被确定, 物品的任何欧洲制造商或进口商应根据第7条第4款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过1吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过0.1% 的浓度。
- (3) 欧盟第1907/2006 ( EC ) 号法规第33条规定, 含有满足第57条中的标准并根据第59条第一款被确定且质量分数大于0.1%的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品用安全, 这些信息至少包括含有的候选清单中物质的名称。
- (4) 如果样品中SVHC的测试结果超过报告限, 建议客户进一步定量分析检测含有SVHC的组分并且得到SVHC物质的准确浓度。

### 测试样品:

#### 样品部件外观描述:

| 样品编号 | SGS样品ID          | 描述   |
|------|------------------|------|
| 1    | SHA11-076389.014 | 银色金属 |

### 测试方法:

SGS内部方法-SHTC-CHEM-SOP-97-T, 采用 ICP-OES 和UV-VIS 分析.

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日期: 2011年05月27日 第3页,共6页

测试结果:(候选清单中的高关注物质)

| 物质名称                   | CAS No.                              | EC No.                 | 014<br>浓度 (%) | RL (%) |
|------------------------|--------------------------------------|------------------------|---------------|--------|
| 硅酸铝耐火陶瓷纤维*             | 650-017-00-8<br>(Index no.)          | -                      | ND            | 0.005  |
| 重铬酸铵*                  | 7789-09-5                            | 232-143-1              | ND            | 0.005  |
| 硼酸*                    | 10043-35-3<br>11113-50-1             | 233-139-2<br>234-343-4 | ND            | 0.005  |
| 铬酸, 铬酸及重铬酸低聚物,<br>重铬酸* | 7738-94-5<br>13530-68-2              | 231-801-5<br>236-881-5 | ND            | 0.005  |
| 三氧化铬*                  | 1333-82-0                            | 215-607-8              | ND            | 0.005  |
| 二氯化钴*                  | 7646-79-9                            | 231-589-4              | ND            | 0.005  |
| 碳酸钴*                   | 513-79-1                             | 208-169-4              | ND            | 0.005  |
| 乙酸钴*                   | 71-48-7                              | 200-755-8              | ND            | 0.005  |
| 硝酸钴*                   | 10141-05-6                           | 233-402-1              | ND            | 0.005  |
| 硫酸钴*                   | 10124-43-3                           | 233-334-2              | ND            | 0.005  |
| 五氧化二砷*                 | 1303-28-2                            | 215-116-9              | ND            | 0.005  |
| 三氧化二砷*                 | 1327-53-3                            | 215-481-4              | ND            | 0.005  |
| 无水四硼酸钠*                | 1303-96-4<br>1330-43-4<br>12179-04-3 | 215-540-4              | ND            | 0.005  |
| 铬酸铅*                   | 7758-97-6                            | 231-846-0              | ND            | 0.005  |
| 钼铬红(C.I.颜料红104)*       | 12656-85-8                           | 235-759-9              | ND            | 0.005  |
| 砷酸氢铅*                  | 7784-40-9                            | 232-064-2              | ND            | 0.005  |
| 铅铬黄(C.I.颜料黄34)*        | 1344-37-2                            | 215-693-7              | ND            | 0.005  |
| 铬酸钾*                   | 7789-00-6                            | 232-140-5              | ND            | 0.005  |
| 重铬酸钾*                  | 7778-50-9                            | 231-906-6              | ND            | 0.005  |
| 铬酸钠*                   | 7775-11-3                            | 231-889-5              | ND            | 0.005  |

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| 物质名称          | CAS No.                        | EC No.    | 014<br>浓度 (%) | RL (%) |
|---------------|--------------------------------|-----------|---------------|--------|
| 重铬酸钠*         | 7789-12-0<br>and<br>10588-01-9 | 234-190-3 | ND            | 0.005  |
| 水合硼酸钠*        | 12267-73-1                     | 235-541-3 | ND            | 0.005  |
| 氧化锆硅酸铝耐火陶瓷纤维* | 650-017-00-8<br>(Index no.)    | -         | ND            | 0.005  |

注释:

- (1) RL = 报告极限值, 所有RL是基于均一材质的测试。
- (2) ND = 未检出 (< RL), ND针对化合物。
- (3) \* 测试结果是由选定的元素或标记物的结果并基于最坏的情况计算得出。详细信息请参见SGS REACH网站:

[www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)

硼酸、无水四硼酸钠和水合硼酸钠的结果由ICP-OES测试的水提取的硼元素、钠元素结果换算得出。

RL = 0.005% 是针对元素 (例如钴、砷、铅、钠、铬、铬(VI)、硅、铝、锆、硼和钾), 除了钨的RL= 0.0005%。

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通过SHAEC1105529201A01的评估,对特定的材质类型(纯玻璃、陶瓷和金属),以下有机SVHC几乎不可能存在

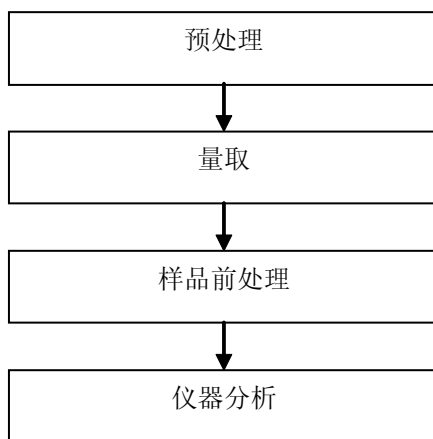
| 物质名称   | CAS No.                 | EC No.                 |
|--|-------------------------|------------------------|
| 2,4-二硝基甲苯  | 121-14-2                | 204-450-0              |
| 2-乙氧基乙醇  | 110-80-5                | 203-804-1              |
| 2-甲氧基乙醇  | 109-86-4                | 203-713-7              |
| 4,4'-二氨基二苯甲烷(MDA)  | 101-77-9                | 202-974-4              |
| 2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)   | 81-15-2                 | 201-329-4              |
| 丙烯酰胺   | 1979-6-1                | 201-173-7              |
| C10-13 氯代烃(短链氯化石蜡)   | 85535-84-8              | 287-476-5              |
| 蒽  | 120-12-7                | 204-371-1              |
| 蒽油*  | 90640-80-5              | 292-602-7              |
| 蒽油, 蒽糊*  | 90640-81-6              | 292-603-2              |
| 蒽油, 蒽糊, 蒽馏分*   | 91995-15-2              | 295-275-9              |
| 蒽油, 蒽糊, 轻油*  | 91995-17-4              | 295-278-5              |
| 蒽油, 含蒽量少*  | 90640-82-7              | 292-604-8              |
| 邻苯二甲酸丁苄酯(BBP)  | 85-68-7                 | 201-622-7              |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP)  | 117-81-7                | 204-211-0              |
| 氧化双三丁基锡(TBTO)  | 56-35-9                 | 200-268-0              |
| 邻苯二甲酸二丁酯(DBP)  | 84-74-2                 | 201-557-4              |
| 邻苯二甲酸二异丁酯  | 84-69-5                 | 201-553-2              |
| 六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) $\Delta$ | 25637-99-4<br>3194-55-6 | 247-148-4<br>221-695-9 |
| 沥青, 煤焦油, 高温*   | 65996-93-2              | 266-028-2              |
| 三氯乙烯   | 1979-1-6                | 201-167-4              |
| 三乙基磷酸酯*  | 15606-95-8              | 427-700-2              |
| 磷酸三(2-氯乙基)酯  | 115-96-8                | 204-118-5              |

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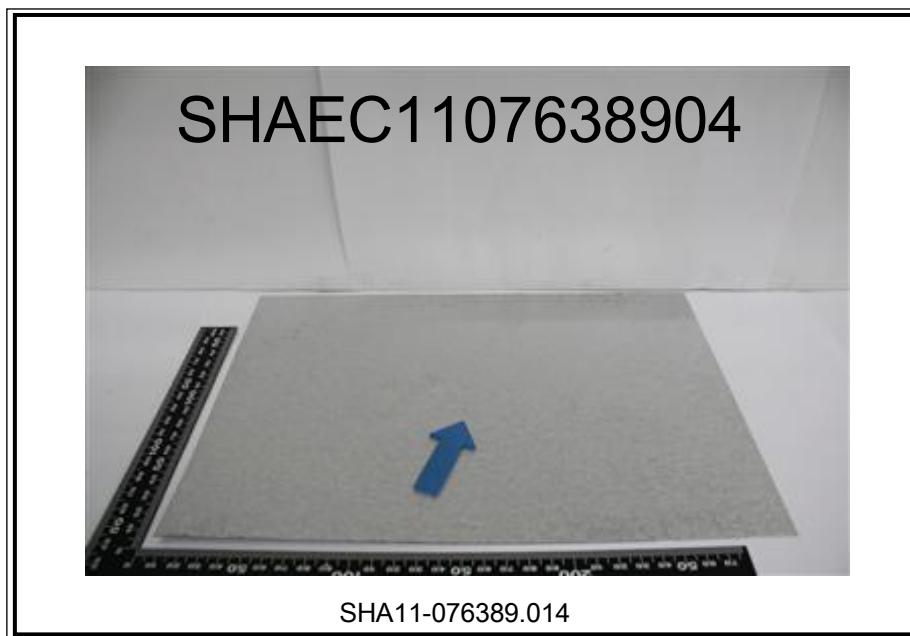


## SVHC 测试流程图

- 1) 分析人员: 孙庆艳/钟艳
- 2) 项目负责人: 连超锋/刘娟



样品照片:



此照片仅限于随SGS正本报告使用

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