

## 测试报告 (SVHC)

No. SHAEC1307267724

日期: 2013年05月15日 第1页,共10页

上海梅山钢铁股份有限公司  
江苏省南京市中华门外新建

以下测试之样品是由申请者所提供及确认: 热轧板

SGS工作编号: SP13-011742 - 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10日

测试要求: 根据客户要求,

(i) 基于欧洲化学品管理署截止2012年12月19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), 对部分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, 委托样品中, 测试的高关注物质浓度都 $\leq$ 0.1%.
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通过
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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

本报告是编号为SHAEC1307267723报告的中文版本.

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- (c)授权审议的高关注物质候选清单上的物质（除上述以外的原因）在非气体混合物中的浓度 $\geq 0.1\%$  (w/w), 或  
(d) 设有欧洲范围内工作场所接触限值的物质。

- (5) 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:

### 测试样品描述:

样品编号	SGS样品ID	描述
1	SHA13-072677.020	银灰色金属板

### 测试方法:

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

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测试结果:(候选清单中的高关注物质)

NO.	物质名称	CAS No.	EC No.	020 浓度 (%)	RL (%)
1	硅酸铝耐火陶瓷纤维*▲	650-017-00-8 (Index no.)	-	ND	0.005
2	重铬酸铵*	7789-09-5	232-143-1	ND	0.005
3	砷酸*	7778-39-4	231-901-9	ND	0.005
4	硼酸*	10043-35-3 11113-50-1	233-139-2 234-343-4	ND	0.005
5	砷酸钙*	7778-44-1	231-904-5	ND	0.005
6	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	7738-94-5 13530-68-2	231-801-5 236-881-5	ND	0.005
7	三氧化铬*	1333-82-0	215-607-8	ND	0.005
8	碳酸钴*	513-79-1	208-169-4	ND	0.005
9	二氯化钴*	7646-79-9	231-589-4	ND	0.005
10	硝酸钴*	10141-05-6	233-402-1	ND	0.005
11	硫酸钴*	10124-43-3	233-334-2	ND	0.005
12	五氧化二砷*	1303-28-2	215-116-9	ND	0.005
13	三氧化二砷*	1327-53-3	215-481-4	ND	0.005
14	三氧化二硼*	1303-86-2	215-125-8	ND	0.005
15	铬酸铬*	24613-89-6	246-356-2	ND	0.005
16	无水四硼酸钠*	1303-96-4 1330-43-4 12179-04-3	215-540-4	ND	0.005
17	四氟硼酸铅*	13814-96-5	237-486-0	ND	0.005
18	铬酸铅*	7758-97-6	231-846-0	ND	0.005
19	钼铬红(C.I.颜料红104)*	12656-85-8	235-759-9	ND	0.005

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NO.	物质名称	CAS No.	EC No.	020 浓度 (%)	RL (%)
20	氨基氰铅盐*	20837-86-9	244-073-9	ND	0.005
21	叠氮化铅*	13424-46-9	236-542-1	ND	0.005
22	硝酸铅*	10099-74-8	233-245-9	ND	0.005
23	砷酸氢铅*	7784-40-9	232-064-2	ND	0.005
24	一氧化铅*	1317-36-8	215-267-0	ND	0.005
25	碱式硫酸铅*	12036-76-9	234-853-7	ND	0.005
26	铅铬黄(C.I.颜料黄34)*	1344-37-2	215-693-7	ND	0.005
27	四氧化三铅*	1314-41-6	215-235-6	ND	0.005
28	钛酸铅*	12060-00-3	235-038-9	ND	0.005
29	钛酸铅铅*	12626-81-2	235-727-4	ND	0.005
30	硫酸四氧化五铅*	12065-90-6	235-067-7	ND	0.005
31	氢氧化铬酸锌*	49663-84-5	256-418-0	ND	0.005
32	铬酸钾*	7789-00-6	232-140-5	ND	0.005
33	重铬酸钾*	7778-50-9	231-906-6	ND	0.005
34	氢氧化铬酸锌钾*	11103-86-9	234-329-8	ND	0.005
35	铅锑黄*	8012-00-8	232-382-1	ND	0.005
36	掺杂铅的硅酸钡*	68784-75-8	272-271-5	ND	0.005
37	硅酸铅*	11120-22-2	234-363-3	ND	0.005
38	铬酸钠*	7775-11-3	231-889-5	ND	0.005
39	重铬酸钠*	7789-12-0 and 10588-01-9	234-190-3	ND	0.005
40	铬酸锶*	7789-06-2	232-142-6	ND	0.005
41	二碱式亚硫酸铅*	62229-08-7	263-467-1	ND	0.005
42	水合硼酸钠*	12267-73-1	235-541-3	ND	0.005

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NO.	物质名称	CAS No.	EC No.	020 浓度 (%)	RL (%)
43	硫酸三氧化四铅*	12202-17-4	235-380-9	ND	0.005
44	碱式碳酸铅*	1319-46-6	215-290-6	ND	0.005
45	砷酸铅*	3687-31-8	222-979-5	ND	0.005
46	二碱式亚磷酸铅*	12141-20-7	235-252-2	ND	0.005
47	氧化锆硅酸铝耐火陶瓷纤维* ▲	650-017-00-8 (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。  
ND = 未检出 (< RL), ND针对SVHC物质。
- (2) ▲六溴环十二烷(HBCDD) 的非对映异构体 $\alpha$ -HBCDD、 $\beta$ -HBCDD、 $\gamma$ -HBCDD的CAS NO分别为134237-50-6, 134237-51-7, 134237-52-8。  
☆甲基六氢邻苯二甲酸酐, 4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐, 3-甲基六氢邻苯二甲酸酐的CAS No: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; 及其EC No: 247-094-1, 243-072-0, 256-356-4, 260-566-1。
- (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)  
硼化合物的结果由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、钾、铈、锌、钙、锑、钛和钽), 除了钼的RL= 0.0005%, 硼的RL= 0.0025%(仅对四氟硼酸铅)。
- (4) § 只有当物质包含米氏酮(CAS No.: 90-94-8)或米氏碱(CAS No.: 101-61-1)的浓度 $\geq 0.1\%$ (w / w)的情况下, 该物质才被提议定为SVHC。
- (5) ▲2012年6月18日, 欧洲化学品管理署把2010年1月和2011年12月加入到供授权审议的SVHC候选清单中的二项硅酸铝耐火陶瓷纤维和二项氧化锆硅酸铝耐火陶瓷纤维整合, 清单上目前只有一项硅酸铝耐火陶瓷纤维和一项氧化锆硅酸铝耐火陶瓷纤维。
- (6) 通过SHAEC1305064701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

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物质名称	CAS No.	EC No.
二盐基邻苯二甲酸铅*	69011-06-9	273-688-5
C.I.碱性蓝26 <sup>§</sup>	2580-56-5	219-943-6
C.I.碱性紫3 <sup>§</sup>	548-62-9	208-953-6
1,2,3-三氯丙烷	96-18-4	202-486-1
1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	276-158-1
1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	271-084-6
1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	284-032-2
三乙二醇二甲醚(TEGDME)	112-49-2	203-977-3
1,2-二氯乙烷	107-06-2	203-458-1
乙二醇二乙醚	629-14-1	211-076-1
乙二醇二甲醚(EGDME)	110-71-4	203-794-9
1-溴丙烷	106-94-5	203-445-0
1-甲基-2-吡咯烷酮	872-50-4	212-828-1
4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	202-918-9
2-甲氧基苯胺	90-04-0	201-963-1
2,4-二硝基甲苯	121-14-2	204-450-0
乙二醇乙醚	110-80-5	203-804-1
乙二醇乙醚醋酸酯	111-15-9	203-839-2
乙二醇单甲醚	109-86-4	203-713-7
3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	421-150-7
对特辛基苯酚	140-66-9	205-426-2
对特辛基苯酚乙氧基醚	-	-
4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	202-027-5
4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇 <sup>§</sup>	561-41-1	209-218-2
4,4'-二氨基二苯甲烷(MDA)	101-77-9	202-974-4
4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	212-658-8
4,4'-二氨基二苯醚及其盐	101-80-4	202-977-0
4-氨基偶氮苯	1960-9-3	200-453-6
2,4-二氨基甲苯	95-80-7	202-453-1
4-壬基(支链与直链)苯酚	-	-
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
2-甲氧基-5-甲基苯胺	120-71-8	204-419-1
碱式乙酸铅*	51404-69-4	257-175-3
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

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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
4-氨基联苯	92-67-1	202-177-1
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	204-211-0
乙二醇二甲醚	111-96-6	203-924-4
邻苯二甲酸二甲氧基乙酯	117-82-8	204-212-6
十溴二苯醚(DecaBDE)	1163-19-5	214-604-9
氧化双三丁基锡(TBTO)	56-35-9	200-268-0
乙酸钴*	71-48-7	200-755-8
偶氮二甲酰胺	123-77-3	204-650-8
二丁基二氧化锡(DBTC)	683-18-1	211-670-0
邻苯二甲酸二丁酯(DBP)	84-74-2	201-557-4
硫酸二乙酯	64-67-5	200-589-6
邻苯二甲酸二异丁酯	84-69-5	201-553-2
邻苯二甲酸二异戊酯	605-50-5	210-088-4
硫酸二甲酯	77-78-1	201-058-1
地乐酚	88-85-7	201-861-7
双(十八烷基)二氧代三铅*	12578-12-0	235-702-8
C16-18-脂肪酸铅*	91031-62-8	292-966-7
甲醛与苯胺的低聚物	25214-70-4	500-036-1
甲酰胺	1975-12-7	200-842-0
呋喃	110-00-9	203-727-3
全氟十一烷酸	2058-94-8	218-165-4
全氟十四烷酸	376-06-7	206-803-4
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, 3194-55-6	247-148-4, 221-695-9
环己烷-1,2-二羧酸酐, 顺式-环己烷-1,2-二羧酸酐, 反式-环己烷-1,2-二羧酸酐	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9

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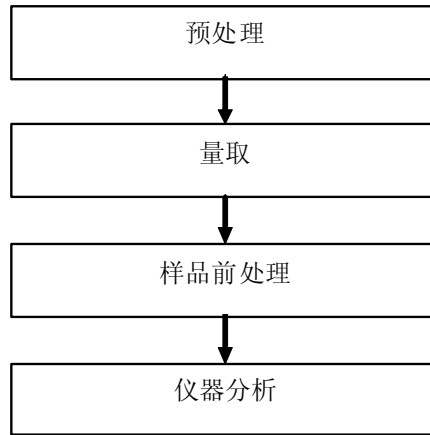
日期: 2013年05月15日 第9页,共10页

甲基六氢邻苯二甲酸酐, 4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐, 3-甲基六氢邻苯二甲酸酐	☆	☆
联氨	7803-57-8, 302-01-2	206-114-9
苦味酸铅*	6477-64-1	229-335-2
史蒂芬酸铅*	15245-44-0	239-290-0
甲基磺酸铅*	17570-76-2	401-750-5
甲氧基乙酸	625-45-6	210-894-6
N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	202-959-2
N,N-二甲基乙酰胺	127-19-5	204-826-4
N,N-二甲基甲酰胺	1968-12-2	200-679-5
N-甲基乙酰胺	79-16-3	201-182-6
邻苯二甲酸正戊基异戊基酯	776297-69-9	-
邻-氨基偶氮甲苯	97-56-3	202-591-2
2-氨基甲苯	95-53-4	202-429-0
全氟十三烷酸	72629-94-8	276-745-2
酞酐	1977-9-8	201-004-7
沥青, 煤焦油, 高温*	65996-93-2	266-028-2
1,2-环氧丙烷	75-56-9	200-879-2
四乙基铅*	78-00-2	201-075-4
1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H, 3H,5H)-三酮(TGIC)	2451-62-9	219-514-3
三氯乙烯	1979-1-6	201-167-4
全氟十二烷酸	307-55-1	206-203-2
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
C.I.溶剂蓝4 <sup>§</sup>	6786-83-0	229-851-8
1,3,5-三-[(2S和2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H, 3H, 5H)-三酮(β-TGIC)	59653-74-6	423-400-0

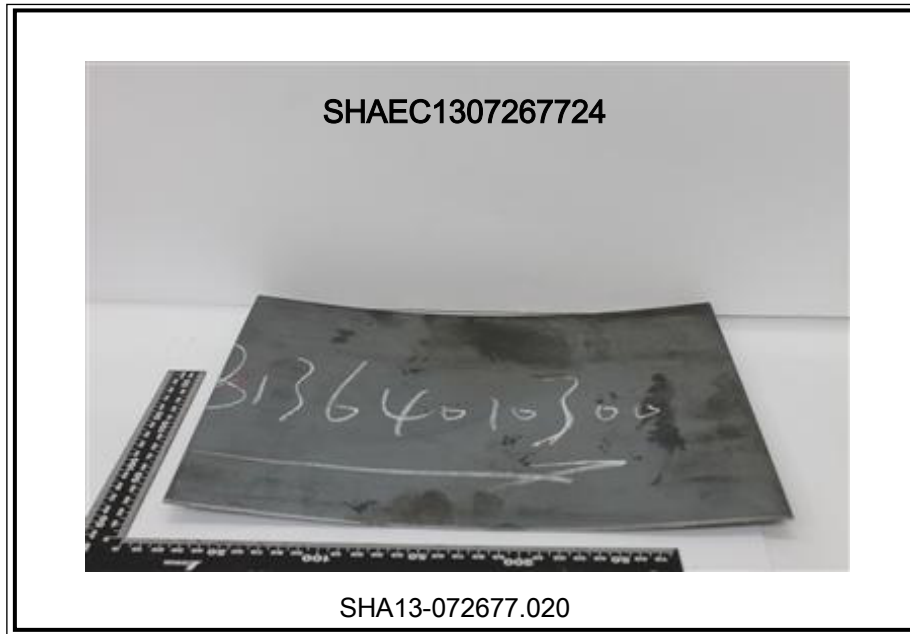
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## SVHC 测试流程图

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