

测试报告 (SVHC)

No. TSNEC1700935406

日期: 2017年06月06日 第1页,共15页

本钢板材股份有限公司冷轧薄板厂
中国辽宁省本溪市平山区钢铁路

以下测试之样品是由申请者所提供及确认: 硅钢产品

SGS工作编号: TP17-004017 - TJ

样品接收日期: 2017年05月24日

测试周期: 2017年05月24日 - 2017年06月06日

测试要求: 根据客户要求,

(i) 基于欧洲化学品管理署截止2017年1月12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173种高关注物质(SVHC)进行筛分测试。

测试结果: 请参见下一页

总结:

根据具体的范围和筛分测试, 所提交样品中SVHC测试结果 \leq 0.1% (w/w)。	通过
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通标标准技术服务(天津)有限公司
授权签名



Rebecca Zhou周艳
批准签署人

备注: 根据客户申请, SGS出具了此中文报告, 英文版本可根据客户要求提供。(The Chinese test report is issued according to the applicant's request. The English version is available from SGS if further needed)



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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/web/guest/candidate-list-table>

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) 关于物品:

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。

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, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

SGS采用欧盟法院对REACH物品定义的裁定, 除非另有说明。详细的 请见下列 :

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

- (3) 关于材料 :

报告中的测试结果是基于测试样品。如样品是 一材质, 其 成成品, 此结果 能 成品中的SVHC浓度。如样品 一材质 合测, 这些材质 可能来 的物品。

如果样品是一种物质或 合物, 并且 接出口 欧盟, 客户有 任 欧盟第1907/2006号REACH法规第31条供应 信息的义务和 件 中的授权高关注物质授权的 任。

- (4) 关于物质和 制品:

如果样品中高关注物质的浓度超过0.1% (w/w)和/或欧盟第1272/2008号CLP法规和欧盟 会条第790/2009号中 定的特 浓度限, 议客户根据欧盟第1907/2006号REACH法规对有关高关注物质准备安全数据 (SDS)以符合供应 信息的义务, 如:

- 根据欧盟第1272/2008号CLP法规被列 有 物质。

- 根据 合物 1999/45/EC或欧盟第1272/2008号CLP法规被列 合物, 其浓度大于或 于 合物 1999/45/EC第3条(3)中规定的限制数 或欧盟第1272/2008号CLP法规 件 第3 分列出的 ;或

- 根据 合物 1999/45/EC并 列 合物, 包含:

(a) 对人 或 有的物质, 在 体或 体 合物 (非 体 合物) 中其浓度 ≥ 1 (w/w) 或在 体 合物中 体 ≥ 0.2 , 或

(b) PBT或vPvB物质, 在 体或 体 合物 (非 体 合物) 中浓度 ≥ 0.1 (w/w), 或

(c) 授权审议的高关注物质候选清单 的物质 (除 以 的) 在非 体 合物中的浓度 ≥ 0.1

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(w/w), 或
(d) 有欧洲范围 工作 所接 限 的物质。

(5) 如果样品中SVHC的测试结果超过报告限, 议客户进一 定量分析 测含有SVHC的 分并且 SVHC物质的准确浓度。

测试样品:

测试样品_____:

样品编号	SGS样品ID	
SN1	TSN17-009354.003	板

测试 法:

SGS 法 - TJChemLab-TOP-004-4, TJChemLab-TOP-061, 采用 ICP-OES GC-MS UV-VIS HPLC-DAD/MS和 法分析。



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测试结果: (SVHC候选清单中的高关注物质)

批	物质名称	CAS No.	003 浓度 (%)	RL (%)
-	所有测试的候选清单中的SVHC	-	ND	-

注 :

- 出的SVHC, 于RL的SVHC 有列出。所有测试的SVHC请参见 。
- RL = 报告 限 , 所有RL是基于 一材质的测试。
ND = 出 (< RL), ND 对SVHC物质。
- Δ (HBCDD) 的非对 体α-HBCDD β-HBCDD γ-HBCDD的CAS NO分
134237-50-6 134237-51-7 134237-52-8。
☆ 基 , 4- 基 , 1- 基 , 3- 基
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。
- * 测试结果是由选定的 或标 物的结果并基于 的 计 出。
详细信息请参见SGS REACH :
www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm
化合物的结果由ICP-OES测试的总 (体, , 体 样品)
和 提取 (其 样品) 的 结果 出。
RL=0.005%是 对 (如 (VI) 和
) , 除了 的RL=0.0005%, 的RL=0.0025%(对)。
- § 有 物质包含 (CAS No.: 90-94-8)或 (CAS No.: 101-61-1)的浓度≥0.1%(w / w) 的
下, 物质 被提议定 SVHC。



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所有测试的SVHC:

批	号	物质名称	CAS No.	RL (%)
I	1	4,4'- 基 (MDA)	101-77-9	0.050
I	2	2,4,6- 基-5- 基 ()	81-15-2	0.050
I	3	C10-13 (化)	85535-84-8	0.050
I	4		120-12-7	0.050
I	5	(BBP)	85-68-7	0.050
I	6	(2- 基 基) (DEHP)	117-81-7	0.050
I	7	化 基 (TBTO)	56-35-9	0.050
I	8	化 *	7646-79-9	0.005
I	9	化 *	1303-28-2	0.005
I	10	化 *	1327-53-3	0.005
I	11	(DBP)	84-74-2	0.050
I	12	(HBCDD) 及其非对 体(α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4, 3194- 55-6	0.050
I	13	*	7784-40-9	0.005
I	14	*	7789-12-0, 10588-01-9	0.005
I	15	基 *	15606-95-8	0.005
II	16	2,4- 基	121-14-2	0.050
II	17		79-06-1	0.050
II	18	*	90640-80-5	0.050
II	19	, *	90640-81-6	0.050
II	20	, , 分*	91995-15-2	0.050



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所有测试的SVHC:

批号	物质名称	CAS No.	RL (%)
II 21	, , *	91995-17-4	0.050
II 22	, 含量少*	90640-82-7	0.050
II 23		84-69-5	0.050
II 24	*	7758-97-6	0.005
II 25	(C.I. 104)*	12656-85-8	0.005
II 26	(C.I. 34)*	1344-37-2	0.005
II 27	, , 高 *	65996-93-2	0.050
II 28	(2- 基)	115-96-8	0.050
III 29	*	7789-09-5	0.005
III 30	*	10043-35-3, 11113-50-1	0.005
III 31	*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III 32	*	7789-00-6	0.005
III 33	*	7778-50-9	0.005
III 34	*	7775-11-3	0.005
III 35	合 *	12267-73-1	0.005
III 36		79-01-6	0.050
IV 37		110-80-5	0.050
IV 38	单	109-86-4	0.050
IV 39	, 及 物, *	7738-94-5 - 13530-68-2	0.005



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所有测试的SVHC:

批号	物质名称	CAS No.	RL (%)
IV 40	化 *	1333-82-0	0.005
IV 41	*	513-79-1	0.005
IV 42	*	71-48-7	0.005
IV 43	*	10141-05-6	0.005
IV 44	*	10124-43-3	0.005
V 45	1,2,3-	96-18-4	0.050
V 46	1,2- - (C6-8) 基 (C7)	71888-89-6	0.050
V 47	1,2- - (C7-11) 基()	68515-42-4	0.050
V 48	1- 基-2-	872-50-4	0.050
V 49		111-15-9	0.050
V 50		7803-57-8, 302-01-2	0.050
V 51	*	7789-06-2	0.005
VI 52	1,2-	107-06-2	0.050
VI 53	4,4'- 基-3,3'-	101-14-4	0.050
VI 54	2- 基	90-04-0	0.050
VI 55	对特 基	140-66-9	0.050
VI 56	硅 *	650-017-00-8 (Index no.)	0.005
VI 57	*	7778-39-4	0.005
VI 58		111-96-6	0.050
VI 59	基	117-82-8	0.050



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所有测试的SVHC:

批号	物质名称	CAS No.	RL (%)
VI 60	*	7778-44-1	0.005
VI 61	*	24613-89-6	0.005
VI 62	的物	25214-70-4	0.050
VI 63	化 *	13424-46-9	0.005
VI 64	*	6477-64-1	0.005
VI 65	*	15245-44-0	0.005
VI 66	N,N-基	127-19-5	0.050
VI 67	化 *	49663-84-5	0.005
VI 68		77-09-8	0.050
VI 69	化 *	11103-86-9	0.005
VI 70	*	3687-31-8	0.005
VI 71	化硅 *	650-017-00-8 (Index no.)	0.005
VII 72	C.I. 26§	2580-56-5	0.050
VII 73	C.I. 3§	548-62-9	0.050
VII 74	(TEGDME)	112-49-2	0.050
VII 75	(EGDME)	110-71-4	0.050
VII 76	4,4'- (基) ()	90-94-8	0.050
VII 77	4,4'- (基)-4''-基 §	561-41-1	0.050
VII 78	化 *	1303-86-2	0.005
VII 79		75-12-7	0.050



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批号	物质名称	CAS No.	RL (%)
VII 80	基 *	17570-76-2	0.005
VII 81	N,N,N',N'- 基-4,4'- 基 ()	101-61-1	0.050
VII 82	1,3,5- (基 基)-1,3,5- -2,4,6-(1H, 3H,5H)- (TGIC)	2451-62-9	0.050
VII 83	C.I. 4§	6786-83-0	0.050
VII 84	1,3,5- -[(2S和2R)-2,3- 基]-1,3,5- -2,4,6-(1H, 3H, 5H)- (β-TGIC)	59653-74-6	0.050
VIII 85	基 *	69011-06-9	0.005
VIII 86	1,2- - () 基	84777-06-0	0.050
VIII 87		629-14-1	0.050
VIII 88	1-	106-94-5	0.050
VIII 89	3- 基-2- 基-2-(3- 基 基)-1,3-恶唑	143860-04-2	0.050
VIII 90	对特 基 基	-	0.050
VIII 91	4,4'- 基-3,3'- 基	838-88-0	0.050
VIII 92	4,4'- 基 及其	101-80-4	0.050
VIII 93	4- 基偶	60-09-3	0.050
VIII 94	2,4- 基	95-80-7	0.050
VIII 95	4-壬基()	-	0.050
VIII 96	2- 基-5- 基	120-71-8	0.050
VIII 97	式 *	51404-69-4	0.005
VIII 98	4- 基	92-67-1	0.050
VIII 99	(DecaBDE)	1163-19-5	0.050



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No. TSNEC1700935406

日期: 2017年06月06日 第10页,共15页

所有测试的SVHC:

批	号	物质名称	CAS No.	RL (%)
VIII	100	-1,2- 羧 ,顺式- -1,2- 羧 ,反式- -1,2- 羧	85-42-7, 13149-00-3, 14166-21-3	0.050
VIII	101	偶	123-77-3	0.050
VIII	102	基 化 (DBTC)	683-18-1	0.050
VIII	103		64-67-5	0.050
VIII	104		605-50-5	0.050
VIII	105		77-78-1	0.050
VIII	106	地乐	88-85-7	0.050
VIII	107	(八 基) *	12578-12-0	0.005
VIII	108	C16-18-脂肪 *	91031-62-8	0.005
VIII	109	呋喃	110-00-9	0.050
VIII	110	全 一	2058-94-8	0.050
VIII	111	全	376-06-7	0.050
VIII	112	基 ,4- 基 ,1- 基 ,3- 基	☆	0.050
VIII	113	*	13814-96-5	0.005
VIII	114	基氰 *	20837-86-9	0.005
VIII	115	*	10099-74-8	0.005
VIII	116	一 化 *	1317-36-8	0.005
VIII	117	式 *	12036-76-9	0.005
VIII	118	化 *	1314-41-6	0.005
VIII	119	*	12060-00-3	0.005



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所有测试的SVHC:

批号	物质名称	CAS No.	RL (%)
VIII 120	*	12626-81-2	0.005
VIII 121	基	625-45-6	0.050
VIII 122	1,2-	75-56-9	0.050
VIII 123	N,N- 基	68-12-2	0.050
VIII 124	N- 基	79-16-3	0.050
VIII 125	正 基 基	776297-69-9	0.050
VIII 126	- 基偶	97-56-3	0.050
VIII 127	2- 基	95-53-4	0.050
VIII 128	全	72629-94-8	0.050
VIII 129	化 *	12065-90-6	0.005
VIII 130	*	8012-00-8	0.005
VIII 131	掺杂 的硅 *	68784-75-8	0.005
VIII 132	硅 *	11120-22-2	0.005
VIII 133	式亚 *	62229-08-7	0.005
VIII 134	基 *	78-00-2	0.005
VIII 135	化 *	12202-17-4	0.005
VIII 136	全	307-55-1	0.050
VIII 137	式 *	1319-46-6	0.005
VIII 138	式亚 *	12141-20-7	0.005
IX 139	4-壬基() 基	-	0.050
IX 140	全 (APFO)	3825-26-1	0.050

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批号	物质名称	CAS No.	RL (%)
IX 141	化 *	1306-19-0	0.005
IX 142	*	7440-43-9	0.005
IX 143	正 (DPP)	131-18-0	0.050
IX 144	全 (PFOA)	335-67-1	0.050
X 145	化 *	1306-23-6	0.005
X 146	正	84-75-3	0.050
X 147	C.I. 接 28	573-58-0	0.050
X 148	C.I. 接黑38	1937-37-7	0.050
X 149	2-巯基咪唑啉	96-45-7	0.050
X 150	*	301-04-2	0.005
X 151		25155-23-1	0.050
XI 152	() 基	68515-50-4	0.050
XI 153	化 *	10108-64-2	0.005
XI 154	合过 *	-	0.005
XI 155	过 *	7632-04-4	0.005
XII 156	2-(2H- 并 唑-2-基)-4,6- 基 (UV-328)	25973-55-1	0.050
XII 157	2- 并 唑-2-基-4,6- 基 (UV-320)	3846-71-7	0.050
XII 158	正 基- (2- 基 基巯基) (DOTE)	15571-58-1	0.050
XII 159	化 *	7790-79-6	0.005
XII 160	*	10124-36-4, 31119-53-6	0.005



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测试报告
(SVHC)

No. TSNEC1700935406

日期: 2017年06月06日 第13页,共15页

所有测试的SVHC:

批	号	物质名称	CAS No.	RL (%)
XII	161	正基- (2-基基巯基) (DOTE)和单基- (2-基基巯基) (MOTE)的反应物	-	0.050
XIII	162	1,2-癸, 其中 (C6-10) 基 / 1,2-癸, 含量≥0.3%	68515-51-5, 68648-93-1	0.050
XIII	163	5-级基-2-(2,4-基-3--1-基)-5-基-1,3-恶 [1], 5-级基-2-(4,6-基-3--1-基)-5-基-1,3-恶 [2] [任何[1]和[2]或者其任意合的单独体或其任何合]	-	0.050
XIV	164	1,3-	1120-71-4	0.050
XIV	165	2,4-基-6-(5-并唑-2-基) (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-并唑-2-基)-4-基-6-仲基 (UV-350)	36437-37-3	0.050
XIV	167	基	98-95-3	0.050
XIV	168	全壬及其和	375-95-1, 21049-39-8, 4149-60-4	0.050
XV	169	并(a)茈	50-32-8	0.050
XVI	170	4,4'-亚基 (A)	80-05-7	0.050
XVI	171	4-庚基()	-	0.050
XVI	172	全癸 (PFDA) 及其和	3108-42-7, 335-76-2, 3830-45-3	0.050
XVI	173	对基	80-46-6	0.050



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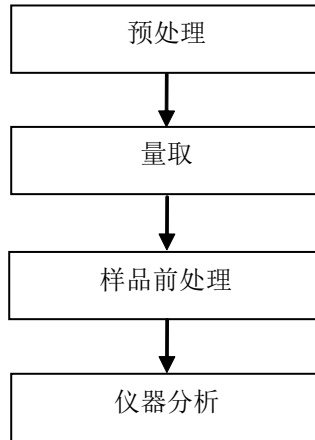
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件

SVHC 测试流程图

- 1) 分析人 : 张盼/王进
- 2) 项目负 人: 王 强/朱敏



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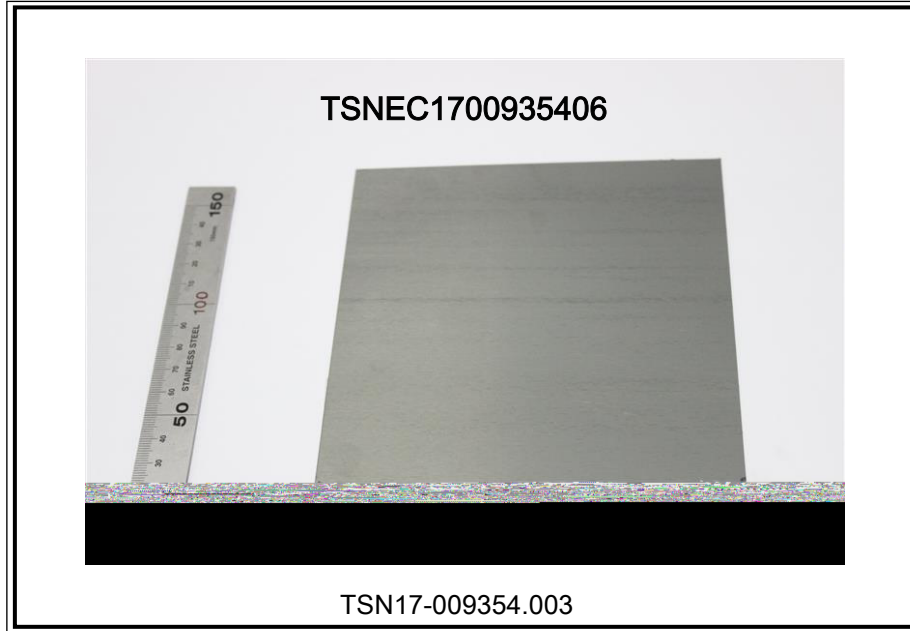


测试报告 (SVHC)

No. TSNEC1700935406

日期: 2017年06月06日 第15页,共15页

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