

测试报告 (SVHC)

No. SHAEC1721014810

日期: 2017年10月09日 第1页,共15页

昆山矽格玛材料科技有限公司
江苏省昆山市千灯镇石浦淞南东路188号

以下测试之样品是由申请者所提供及确认: SH (金-银合金键合丝)

SGS工作编号: SP17-033273 - SH

样品接收日期: 2017年09月21日

测试周期: 2017年09月21日 - 2017年09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2017年7月7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174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(上海)有限公司
授权签名

马广媛

Marry Ma 马广媛

批准签署人

本报告是编号为SHAEC1721014809 报告的中文版本。



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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。详细的解释请见下列网址:

<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。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的SVHC浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

如果样品是一种物质或混合物, 并且直接出口到欧盟, 客户有责任遵守欧盟第1907/2006号REACH法规第31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。

- (4) 关于物质和配制品:

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法规和欧盟委员会条例第790/2009号中设定的特殊浓度限值, 建议客户根据欧盟第1907/2006号REACH法规对有关高关注物质准备安全数据表(SDS)以符合供应链传递信息的义务, 如:

- 根据欧盟第1272/2008号CLP法规被列为有害物质。

- 根据危险混合物指令1999/45/EC或欧盟第1272/2008号CLP法规被列为危险混合物, 而其浓度大于或等于危险混合物指令1999/45/EC第3条(3)中规定的限制数值或欧盟第1272/2008号CLP法规附件六第3部分列出的较低值;或

- 根据危险混合物指令1999/45/EC并未列为危险混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物 (即非气体混合物) 中其浓度 $\geq 1\%$ (w/w) 或在气体混合物中占体积 $\geq 0.2\%$, 或

(b) PBT或vPvB物质, 在固体或液体混合物 (即非气体混合物) 中浓度 $\geq 0.1\%$ (w/w), 或

(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 $\geq 0.1\%$



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(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
SN1	SHA17-210148.003	银色金属丝

测试方法:

SGS内部方法-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, 采用
ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS和比色法分析。



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测试结果: (SVHC候选清单中的高关注物质)

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

注释:

- (1) 上表仅显示检出的SVHC, 低于RL的SVHC没有列出。所有测试的SVHC请参见附录
- (2) 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。
- (3) Δ 六溴环十二烷(HBCDD) 的非对映异构体 α -HBCDD、 β -HBCDD、 γ -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。
- (4) * 测试结果是由选定的元素的结果并基于最坏的情况计算得出;
**测试结果是由选定的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
硼化合物的结果由ICP-OES测试的总硼(液体, 粉末, 膏体类样品)和水提取(其他样品)的硼元素结果换算得出。
RL = 0.005% 是针对元素(例如钴、砷、铅、铬(VI)、铝、锆、硼、锆、锌、锑、钛、钡和镉), 除了钼的RL=0.0005%, 硼的RL=0.0025%(仅对四氟硼酸铅)。
- (5) § 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。



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附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.050
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.050
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.050
I	4	蒽	120-12-7	0.050
I	5	邻苯二甲酸丁苄酯(BBP)	85-68-7	0.050
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.050
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.050
I	8	邻苯二甲酸二丁酯(DBP)	84-74-2	0.050
I	9	六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4, 3194- 55-6	0.050
II	10	2,4-二硝基甲苯	121-14-2	0.050
II	11	丙烯酰胺	79-06-1	0.050
II	12	蒽油**	90640-80-5	0.050
II	13	蒽油, 蒽糊**	90640-81-6	0.050
II	14	蒽油, 蒽糊, 蒽馏分**	91995-15-2	0.050
II	15	蒽油, 蒽糊, 轻油**	91995-17-4	0.050
II	16	蒽油, 含蒽量少**	90640-82-7	0.050
II	17	邻苯二甲酸二异丁酯	84-69-5	0.050
II	18	沥青, 煤焦油, 高温**	65996-93-2	0.050
II	19	磷酸三(2-氯乙基)酯	115-96-8	0.050
III	20	三氯乙烯	79-01-6	0.050



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(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
IV	21	乙二醇乙醚	110-80-5	0.050
IV	22	乙二醇单甲醚	109-86-4	0.050
V	23	1,2,3-三氯丙烷	96-18-4	0.050
V	24	1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	0.050
V	25	1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	0.050
V	26	1-甲基-2-吡咯烷酮	872-50-4	0.050
V	27	乙二醇乙醚醋酸酯	111-15-9	0.050
V	28	联氨	7803-57-8, 302-01-2	0.050
VI	29	1,2-二氯乙烷	107-06-2	0.050
VI	30	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.050
VI	31	2-甲氧基苯胺	90-04-0	0.050
VI	32	对特辛基苯酚	140-66-9	0.050
VI	33	二乙二醇二甲醚	111-96-6	0.050
VI	34	邻苯二甲酸二甲氧基乙酯	117-82-8	0.050
VI	35	甲醛与苯胺的低聚物	25214-70-4	0.050
VI	36	N,N-二甲基乙酰胺	127-19-5	0.050
VI	37	酚酞	77-09-8	0.050
VII	38	C.I.碱性蓝26§	2580-56-5	0.050
VII	39	C.I.碱性紫3§	548-62-9	0.050
VII	40	三乙二醇二甲醚(TEGDME)	112-49-2	0.050



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附录

所有测试的SVHC:

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VII	41	乙二醇二甲醚(EGDME)	110-71-4	0.050
VII	42	4,4'-二(二甲氨基)二苯甲酮(米氏酮)	90-94-8	0.050
VII	43	4,4'-二(二甲氨基)-4''-甲氨基三苯甲醇§	561-41-1	0.050
VII	44	甲酰胺	75-12-7	0.050
VII	45	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.050
VII	46	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	0.050
VII	47	C.I.溶剂蓝4§	6786-83-0	0.050
VII	48	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	0.050
VIII	49	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.050
VIII	50	乙二醇二乙醚	629-14-1	0.050
VIII	51	1-溴丙烷	106-94-5	0.050
VIII	52	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.050
VIII	53	对特辛基苯酚乙氧基醚	-	0.050
VIII	54	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.050
VIII	55	4,4'-二氨基二苯醚及其盐	101-80-4	0.050
VIII	56	4-氨基偶氮苯	60-09-3	0.050
VIII	57	2,4-二氨基甲苯	95-80-7	0.050
VIII	58	4-壬基(支链与直链)苯酚	-	0.050
VIII	59	2-甲氧基-5-甲基苯胺	120-71-8	0.050
VIII	60	4-氨基联苯	92-67-1	0.050



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测试报告

No. SHAEC1721014810

日期: 2017年10月09日 第8页,共15页

(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	61	十溴二苯醚(DecaBDE)	1163-19-5	0.050
VIII	62	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	0.050
VIII	63	偶氮二甲酰胺	123-77-3	0.050
VIII	64	二丁基二氯化锡(DBTC)	683-18-1	0.050
VIII	65	硫酸二乙酯	64-67-5	0.050
VIII	66	邻苯二甲酸二异戊酯	605-50-5	0.050
VIII	67	硫酸二甲酯	77-78-1	0.050
VIII	68	地乐酚	88-85-7	0.050
VIII	69	呋喃	110-00-9	0.050
VIII	70	全氟十一烷酸	2058-94-8	0.050
VIII	71	全氟十四烷酸	376-06-7	0.050
VIII	72	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	☆	0.050
VIII	73	甲氧基乙酸	625-45-6	0.050
VIII	74	1,2-环氧丙烷	75-56-9	0.050
VIII	75	N,N-二甲基甲酰胺	68-12-2	0.050
VIII	76	N-甲基乙酰胺	79-16-3	0.050
VIII	77	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.050
VIII	78	邻-氨基偶氮甲苯	97-56-3	0.050
VIII	79	2-氨基甲苯	95-53-4	0.050
VIII	80	全氟十三烷酸	72629-94-8	0.050



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测试报告

No. SHAEC1721014810

日期: 2017年10月09日 第9页,共15页

(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	81	全氟十二烷酸	307-55-1	0.050
IX	82	4-壬基(支链与直链)苯酚乙氧基醚	-	0.050
IX	83	全氟辛酸铵(APFO)	3825-26-1	0.050
IX	84	邻苯二甲酸二正戊酯(DPP)	131-18-0	0.050
IX	85	全氟辛酸(PFOA)	335-67-1	0.050
X	86	邻苯二甲酸二正己酯	84-75-3	0.050
X	87	C.I.直接红28	573-58-0	0.050
X	88	C.I.直接黑38	1937-37-7	0.050
X	89	2-巯基咪唑啉	96-45-7	0.050
X	90	磷酸三二甲苯酯	25155-23-1	0.050
XI	91	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.050
XII	92	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV-328)	25973-55-1	0.050
XII	93	2-苯并三唑-2-基-4,6-二叔丁基苯酚(UV-320)	3846-71-7	0.050
XII	94	二正辛基-双(2-乙基己基巯基乙酸酯)锡 (DOTE)	15571-58-1	0.050
XII	95	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.050
XIII	96	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	68515-51-5,68648-93-1	0.050
XIII	97	5-二叔丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.050
XIV	98	1,3-丙磺酸内酯	1120-71-4	0.050
XIV	99	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚(UV-327)	3864-99-1	0.050



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测试报告

No. SHAEC1721014810

日期: 2017年10月09日 第10页,共15页

(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XIV	100	2-(2H-苯并三唑-2-基)-4-叔丁基-6-仲丁基苯酚 (UV-350)	36437-37-3	0.050
XIV	101	硝基苯	98-95-3	0.050
XIV	102	全氟壬酸及其钠盐和铵盐	375-95-1,21049-39-8, 4149-60-4	0.050
XV	103	苯并(a)芘	50-32-8	0.050
XVI	104	4,4'-异亚丙基联苯酚 (双酚A)	80-05-7	0.050
XVI	105	4-庚基(支链与直链)苯酚	-	0.050
XVI	106	全氟癸酸 (PFDA) 及其钠盐和铵盐	3108-42-7 335-76-2 3830-45-3	0.050
XVI	107	对叔戊基苯酚	80-46-6	0.050
XVII	108	全氟己烷-1-磺酸及其盐	-	0.050
I	109	二氯化钴*	7646-79-9	0.005
I	110	五氧化二砷*	1303-28-2	0.005
I	111	三氧化二砷*	1327-53-3	0.005
I	112	砷酸氢铅*	7784-40-9	0.005
I	113	重铬酸钠*	7789-12-0, 10588-01-9	0.005
I	114	三乙基砷酸酯*	15606-95-8	0.005
II	115	钼铬红(C.I.颜料红104)*	12656-85-8	0.005
II	116	铬酸铅*	7758-97-6	0.005
II	117	铅铬黄(C.I.颜料黄34)*	1344-37-2	0.005
III	118	重铬酸铵*	7789-09-5	0.005



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测试报告

No. SHAEC1721014810

日期: 2017年10月09日 第11页,共15页

(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
III	119	硼酸*	10043-35-3, 11113-50-1	0.005
III	120	无水四硼酸钠*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	121	铬酸钾*	7789-00-6	0.005
III	122	重铬酸钾*	7778-50-9	0.005
III	123	铬酸钠*	7775-11-3	0.005
III	124	水合硼酸钠*	12267-73-1	0.005
IV	125	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	7738-94-5 - 13530-68-2	0.005
IV	126	三氧化铬*	1333-82-0	0.005
IV	127	碳酸钴*	513-79-1	0.005
IV	128	乙酸钴*	71-48-7	0.005
IV	129	硝酸钴*	10141-05-6	0.005
IV	130	硫酸钴*	10124-43-3	0.005
V	131	铬酸锶*	7789-06-2	0.005
VI	132	硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.005
VI	133	砷酸*	7778-39-4	0.005
VI	134	砷酸钙*	7778-44-1	0.005
VI	135	铬酸铬*	24613-89-6	0.005
VI	136	叠氮化铝*	13424-46-9	0.005
VI	137	苦味酸铅*	6477-64-1	0.005



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测试报告

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日期: 2017年10月09日 第12页,共15页

(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VI	138	史蒂芬酸铅*	15245-44-0	0.005
VI	139	氢氧化铬酸锌*	49663-84-5	0.005
VI	140	氢氧化铬酸锌钾*	11103-86-9	0.005
VI	141	砷酸铅*	3687-31-8	0.005
VI	142	氧化锆硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.005
VII	143	三氧化二硼*	1303-86-2	0.005
VII	144	甲基磺酸铅*	17570-76-2	0.005
VIII	145	二盐基邻苯二甲酸铅*	69011-06-9	0.005
VIII	146	碱式乙酸铅*	51404-69-4	0.005
VIII	147	双(十八烷基)二氧化三铅*	12578-12-0	0.005
VIII	148	C16-18-脂肪酸铅*	91031-62-8	0.005
VIII	149	四氟硼酸铅*	13814-96-5	0.005
VIII	150	氨基氰铅盐*	20837-86-9	0.005
VIII	151	硝酸铅*	10099-74-8	0.005
VIII	152	一氧化铅*	1317-36-8	0.005
VIII	153	碱式硫酸铅*	12036-76-9	0.005
VIII	154	四氧化三铅*	1314-41-6	0.005
VIII	155	钛酸铅*	12060-00-3	0.005
VIII	156	钛酸铅铅*	12626-81-2	0.005
VIII	157	硫酸四氧化五铅*	12065-90-6	0.005



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测试报告

No. SHAEC1721014810

日期: 2017年10月09日 第13页,共15页

(SVHC)

附录

所有测试的SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VIII	158	铅锑黄*	8012-00-8	0.005
VIII	159	掺杂铅的硅酸钡*	68784-75-8	0.005
VIII	160	硅酸铅*	11120-22-2	0.005
VIII	161	二碱式亚硫酸铅*	62229-08-7	0.005
VIII	162	四乙基铅*	78-00-2	0.005
VIII	163	硫酸三氧化四铅*	12202-17-4	0.005
VIII	164	碱式碳酸铅*	1319-46-6	0.005
VIII	165	二碱式亚磷酸铅*	12141-20-7	0.005
IX	166	氧化镉*	1306-19-0	0.005
IX	167	镉*	7440-43-9	0.005
X	168	硫化镉*	1306-23-6	0.005
X	169	乙酸铅*	301-04-2	0.005
XI	170	氯化镉*	10108-64-2	0.005
XI	171	水合过硼酸钠*	-	0.005
XI	172	过硼酸钠*	7632-04-4	0.005
XII	173	氟化镉*	7790-79-6	0.005
XII	174	硫酸镉*	10124-36-4,31119-53 -6	0.005



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测试报告 (SVHC)

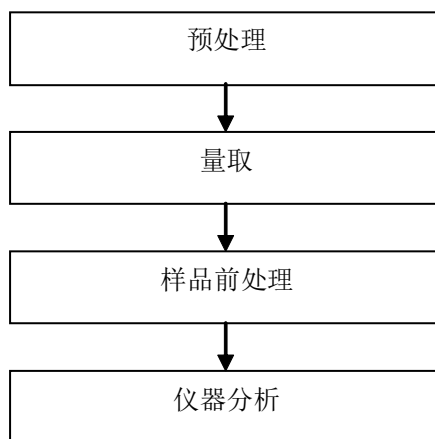
附件

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SVHC 测试流程图

- 1) 分析人员:黄林燕/吴亚平
- 2) 项目负责人: 余锦晖



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测试报告 (SVHC)

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