

测试报告

No. SHAEC1513039808

日期: 2015年07月14日 第1页,共13页

优耐铜材(苏州)有限公司

江苏省苏州市国家高新技术开发区金枫路567号

以下测试之样品是由申请者所提供及确认: 氨基磺酸镍溶液

SGS工作编号: SP15-022050 - SUZ

样品接收日期: 2015年07月06日

测试周期: 2015年07月06日 - 2015年07月09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: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)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。

委托样品的富马酸二甲酯(DMF)含量符合欧盟决议(EU) No 412/2012及1907/2006/EC Reach 附录XVII第61条修正法案

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授权签名

马广媛

Marry Ma 马广媛
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
SN1	SHA15-130398.004	绿色液体

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

RoHS指令2011/65/EU

- 测试方法:
- (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
 - (2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
 - (3) 参考IEC 62321-4:2013, 用ICP-OES测定汞的含量
 - (4) 参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量
 - (5) 参考IEC 62321:2008, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量

测试项目	限值	单位	MDL	004
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND



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No. SHAEC1513039808

日期: 2015年07月14日 第3页,共13页

测试项目	限值	单位	MDL	004
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注:

(1) 最大允许极限值引用自指令2011/65/EU附录II.

卤素

测试方法: 参照EN 14582:2007方法测定, 采用IC进行分析.

测试项目	单位	MDL	004
氟(F)	mg/kg	50	ND
氯(Cl)	mg/kg	50	ND
溴(Br)	mg/kg	50	ND
碘(I)	mg/kg	50	ND

元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析.

测试项目	单位	MDL	004
铈(Sb)	mg/kg	10	ND

邻苯二甲酸盐(或酯)

测试方法: 参考EN 14372: 2004的方法, 采用GC-MS分析邻苯二甲酸盐(或酯)含量.



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测试报告

No. SHAEC1513039808

日期: 2015年07月14日 第4页,共13页

测试项目	CAS NO.	单位	MDL	004
邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0/ 68515-49-1	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND

备注:

参考信息: RoHS指令2002/95/EC的重订指令2011/65/EU及其最新修订草案:

(1) 邻苯二甲酸二(2-乙基己基)酯(DEHP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二丁酯(DBP) 被列为需优先进行风险评估和考虑进行限制的物质。

(2) 欧盟委员会根据RoHS 2.0 (2011/65/EU) 修订草案, 拟将邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二异丁酯(DIBP)列入RoHS 2.0(2011/65/EU) 附录II中, 四项限值均为0.1%。

六溴环十二烷(HBCDD)

测试方法: 参考IEC 62321:2008, 采用GC-MS分析六溴环十二烷含量。

测试项目	单位	MDL	004
六溴环十二烷(HBCDD)	mg/kg	10	ND

备注:

(1) 参考信息: RoHS指令2002/95/EC的重订指令2011/65/EU:

六溴环十二烷(HBCDD) 被列为需优先进行风险评估和考虑进行限制的物质。

欧盟决议(EU) No 412/2012 及1907/2006/EC Reach附录XVII第61条-富马酸二甲酯(DMF)

测试方法: 溶剂萃取, 采用GC-MS进行分析。

测试项目	限值	单位	MDL	004
富马酸二甲酯(DMF)	0.1	mg/kg	0.1	ND



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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.

测试项目	限值	单位	MDL	004
全氟辛烷磺酰基化合物 (PFOS)- 酸,金属盐和酰胺	10	mg/kg	10	ND
全氟辛酸 (PFOA)	-	mg/kg	10	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.

备注:所示结果为湿样品总重量中的含量



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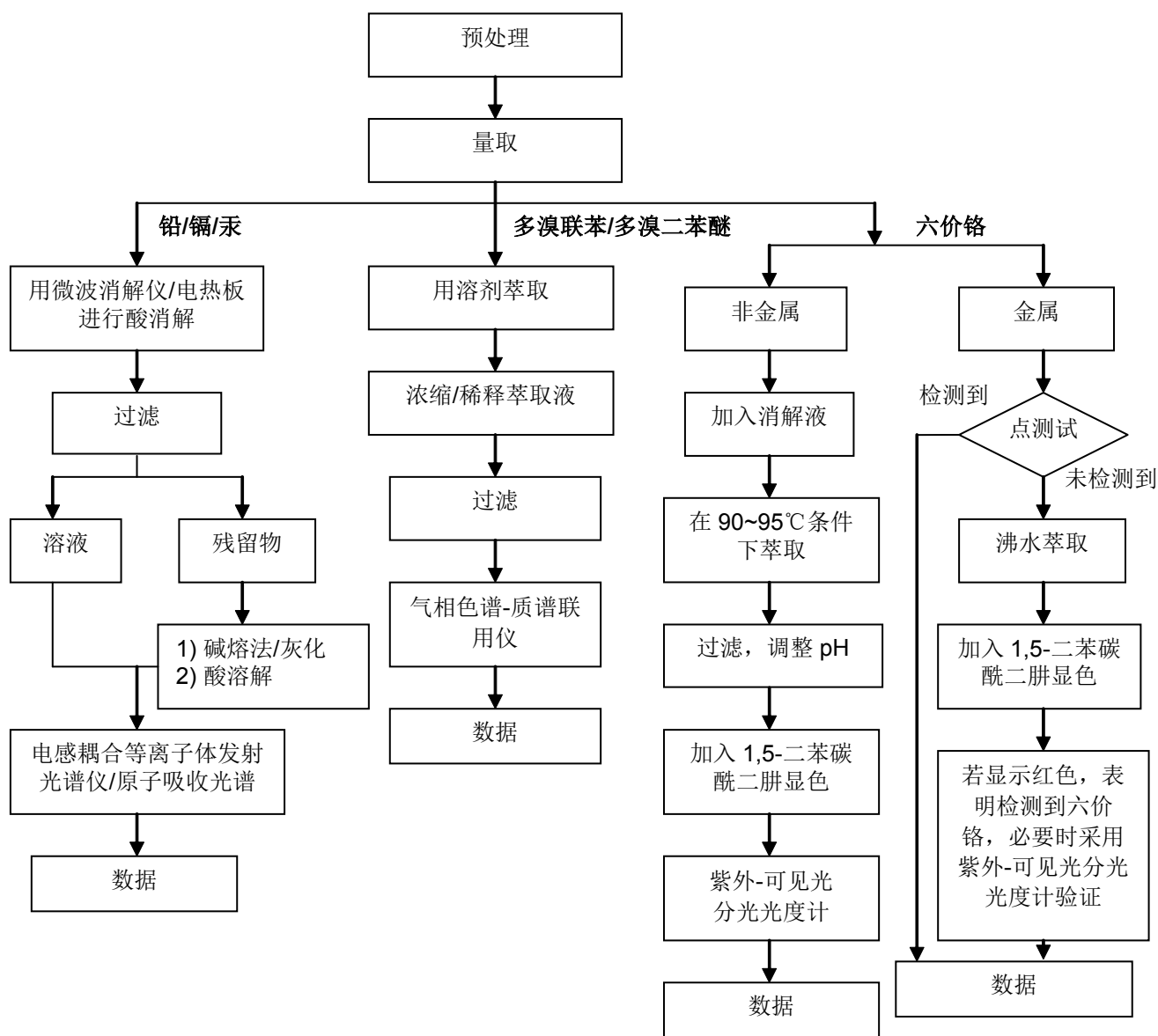
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附件

RoHS 测试流程图

- 1) 分析人员: 张小波/徐刚/朱增珍/秦兴章
- 2) 项目负责人: 施青/金黎霞/黄婷/陈怀磊
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。



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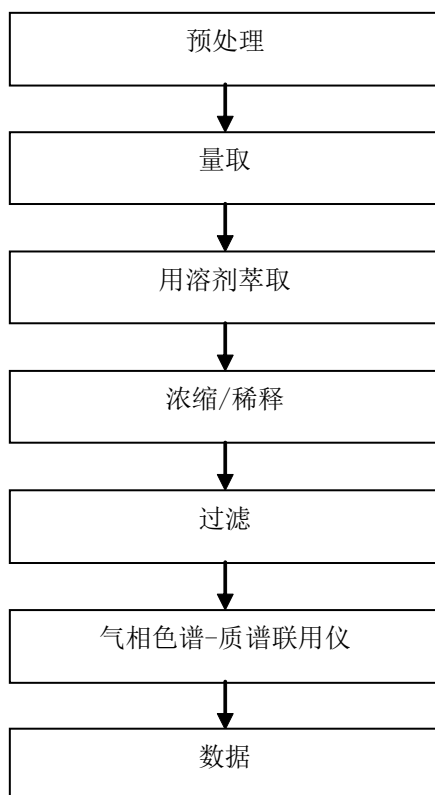
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日期: 2015年07月14日 第7页,共13页

附件

Phthalates 测试流程图

- 1) 分析人员: 高仰景
- 2) 项目负责人: 马永存



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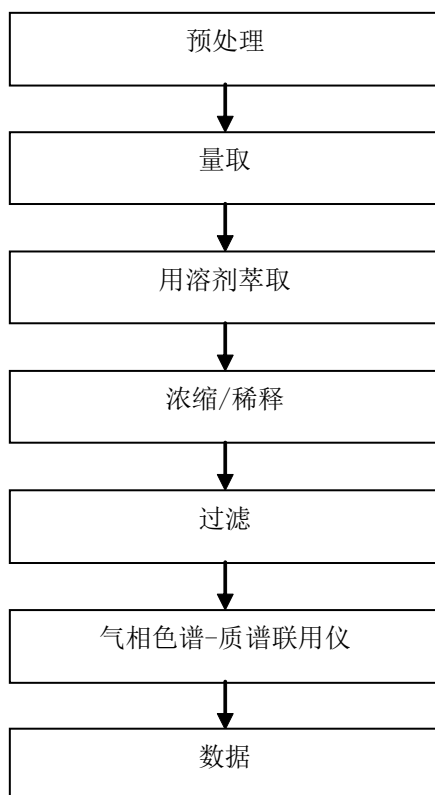
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附件

HBCDD 测试流程图

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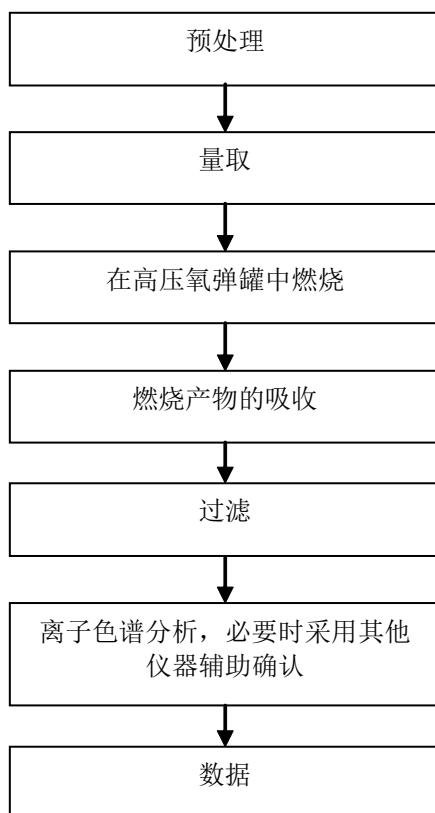
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Halogen(氧弹法)测试流程图

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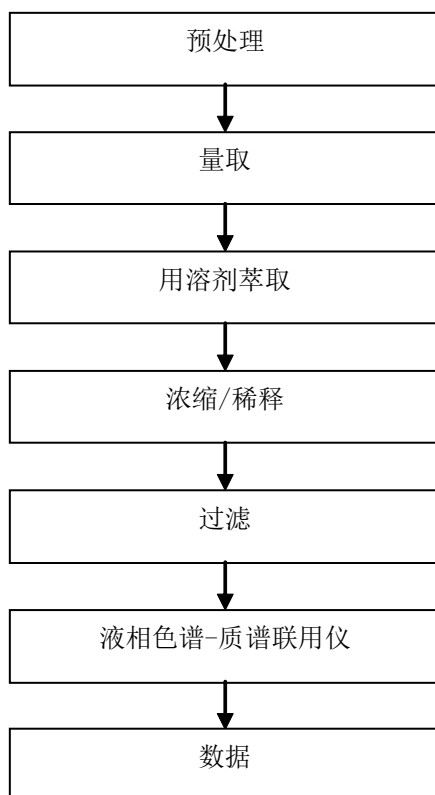
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PFOS/PFOA 测试流程图

- 1) 分析人员: 杨占君
- 2) 项目负责人: 马永存

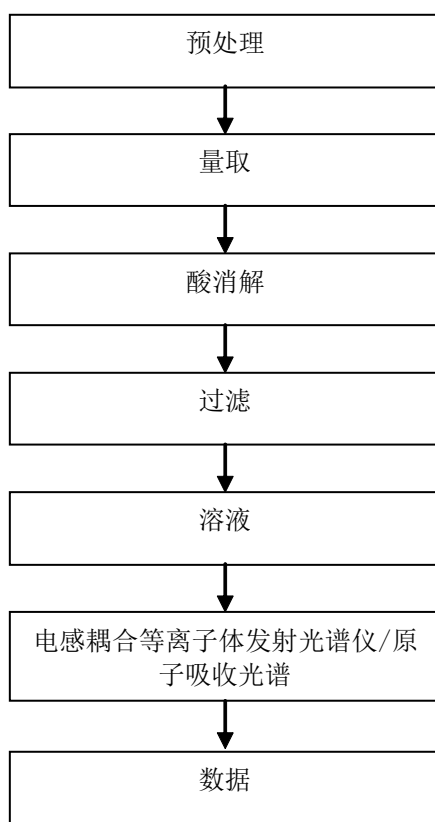


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元素测试流程图

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- 2) 项目负责人: 金黎霞/施青



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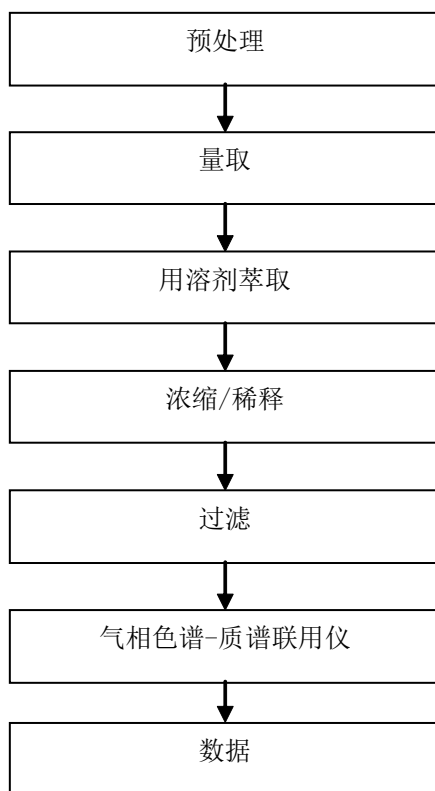
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附件

DMF(富马酸二甲酯)测试流程图

- 1) 分析人员: 段莉莎
- 2) 项目负责人: 黄婷



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