

测试报告

No. CANEC1809509902

日期: 2018年06月01日 第1页,共11页

广州精誉机电设备有限公司

广州市天河区黄村工业园路33号智汇商务园C1座502室

以下测试之样品是由申请者所提供及确认: 喷码机油墨

SGS工作编号: CP18-025455 - GZ
型号: 70000-00101
客户参考信息: 70000-00077, 77001-00070
样品接收日期: 2018年05月17日
测试周期: 2018年05月17日 - 2018年05月28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)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司
授权签名

Zm guan关正孟
批准签署人



测试报告

No. CANEC1809509902

日期: 2018年06月01日 第2页,共11页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN18-095099.001	黑色油墨

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附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, ISO 17075-1:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析.

测试项目	限值	单位	MDL	001
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬 (CrVI)	1,000	mg/kg	3.0	ND
多溴联苯之和(PBBs)	1,000	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)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
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



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No. CANEC1809509902

日期: 2018年06月01日 第3页,共11页

测试项目	限值	单位	MDL	001
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
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

(1)最大允许极限值引用自RoHS指令(EU) 2015/863。IEC 62321系列等同于 EN 62321系列
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

测试项目	单位	MDL	001
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

元素分析

测试方法: SGS内部方法(GZTC CHEM-TOP-009-01, 参考US EPA 方法 3050B:1996), 采用ICP-OES进行分析。

测试项目	单位	MDL	001
锑 (Sb)	mg/kg	10	ND

六溴环十二烷(HBCDD)

测试方法: 参考 IEC 62321:2008, 用 GC-MS分析。



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日期: 2018年06月01日 第4页,共11页

测试项目	单位	MDL	001
六溴环十二烷(HBCDD)	mg/kg	10	ND

全氟辛烷磺酰基化合物(PFOS)和全氟辛酸(PFOA)

测试方法: 参考CEN/TS15968:2010方法, 用 LC-MS分析。

测试项目	CAS NO.	单位	MDL	001
全氟辛酸(PFOA)	335-67-1	mg/kg	10	ND
全氟辛烷磺酸及其衍生物 (PFOS)^	-	mg/kg	10	ND

备注:

(1)^全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSA)、N-乙基全氟辛烷磺酰胺(EtFOSA)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。

备注1: 经IEC62321-7-2:2017, 确认六价铬的结果小于1000mg/kg。

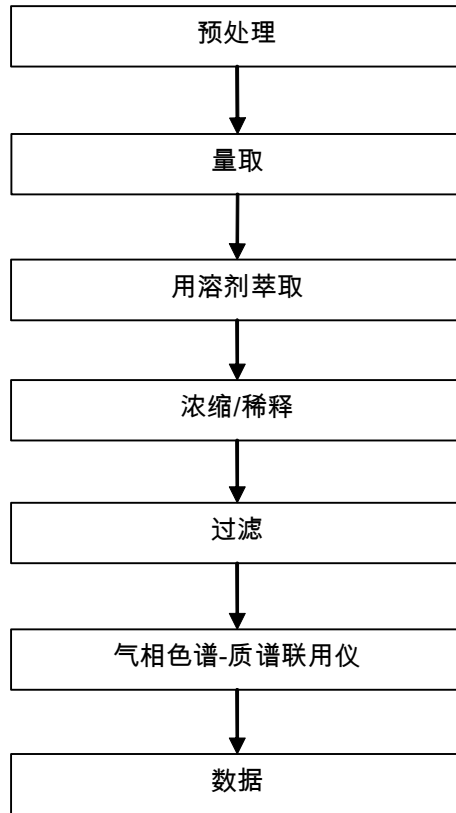
备注2: 所示结果为湿样品总重量中的含量。



附件

Phthalates 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



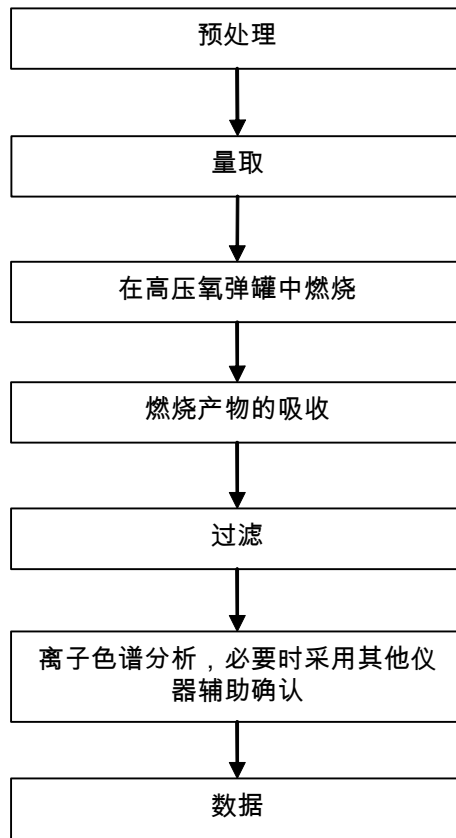
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Halogen 测试流程图

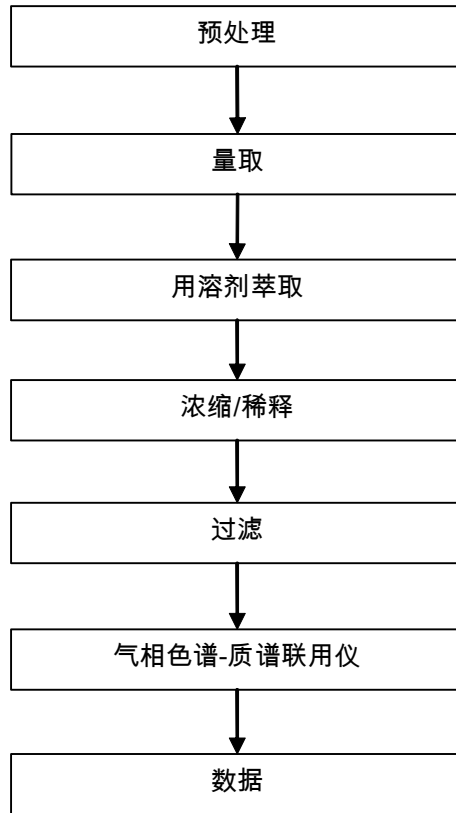
- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



附件

HBCDD 测试流程图

- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



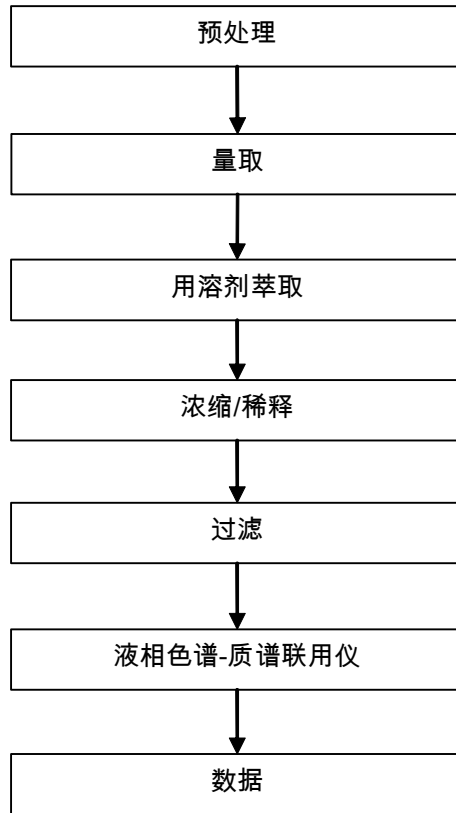
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PFOA / PFOS 测试流程图

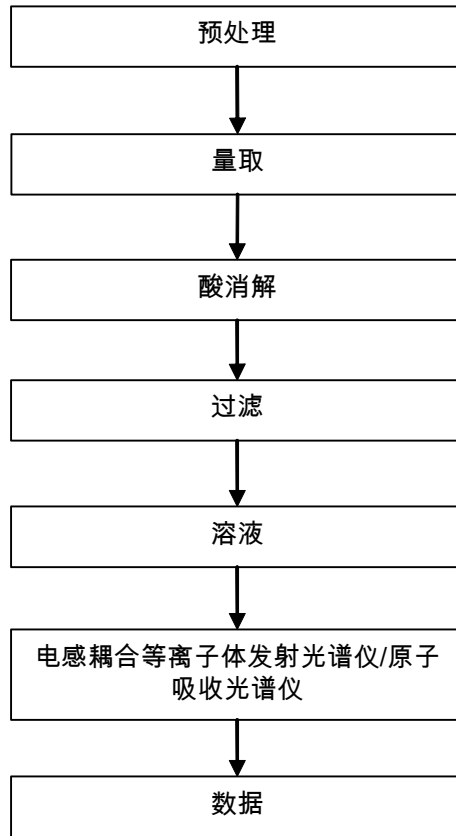
- 1) 分析人员 : 王志红
- 2) 项目负责人 : 刘琼



附件

元素测试流程图

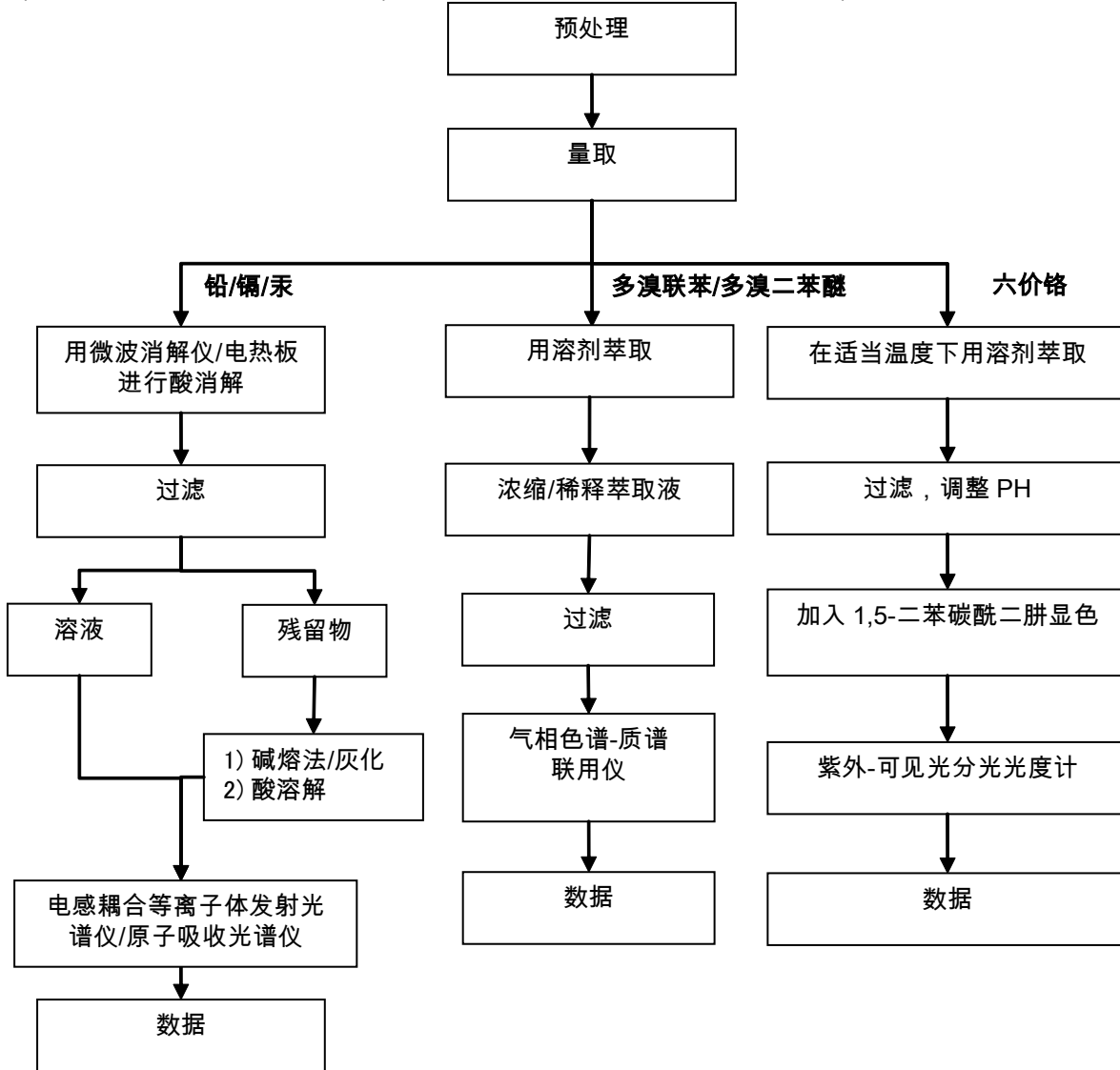
- 1) 分析人员: 张梓路
- 2) 项目负责人: 汪丹



附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

- 1) 分析人员：肖戈 / 胡香云
- 2) 项目负责人：汪丹 / 刘琼
- 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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