

TEST REPORT

NO.: A001R130410203005-1A1

Date: Apr 22, 2013

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Applicant: Koolcore New Materials (Wuhu) Co.,Ltd.

客户/申请商: 芜湖酷科新材料有限公司

Address: Economic And Technological Development Zone, Wuhu City, Anhui Province

地址: 安徽省芜湖市经济技术开发区

Report on the submitted sample said to be

委托测试的样品及申请者对样品的说明如下

Sample name: Ferrochrome black

样品名称: 铁铬黑

Index No.: G-17/C.I.77288

索引号: G-17/C.I.77288

Item/Lot No.: /

批号: /

Material: /

材料: /

Buyer: Koolcore New Materials (Wuhu) Co.,Ltd.

客户: 芜湖酷科新材料有限公司

Supplier: Koolcore New Materials (Wuhu) Co.,Ltd.

供应商: 芜湖酷科新材料有限公司

Manufacturer: Koolcore New Materials (Wuhu) Co.,Ltd.

制造商: 芜湖酷科新材料有限公司

Sample received date: Apr 10, 2013

样品接收日期: 2013-04-10

Testing period: From Apr 10, 2013 to Apr 15, 2013

样品测试周期: 2013-04-10 至 2013-04-15

Test Requested 测试要求:

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr^{6+}), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample in accordance with Directive 2011/65/EU (RoHS).

依据客户要求, 遵照欧盟 2011/65/EU(RoHS)指令, 测定委托样品中的铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr^{6+})、多溴联苯(PBBs)和多溴联苯醚(PBDEs)的含量。

Conclusion 结论:

-When tested as specified, the submitted sample complied with the requirements of Directive 2011/65/EU (RoHS).

-依照委托对指定样品进行测试, 测试结果表明指定样品符合欧盟 2011/65/EU(RoHS)指令的要求。

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) 更多详细信息请查阅下页*****

Signed for and on behalf of 谨代表

Shenzhen AOV Testing Technology Co., Ltd 深圳市安姆特检测技术有限公司

Tested by:

主检 Li Xian Yong, Leif 李先勇

Project Leader 项目负责人

Reviewed by:

主审 Liu Lin Wen, Lewis 刘林文

Laboratory Supervisor 实验室主管

Approved by:

签发 Lv Jie Hua, Jeewah 吕杰华

Technical Director 技术总监

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(Attention is drawn to the terms and conditions printed overleaf)

Hotline
400 700 8600

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Test Method:

测试方法:

With reference to IEC 62321:2008 Ed 1.0 Electrotechnical products - Determination of levels of six regulated substances

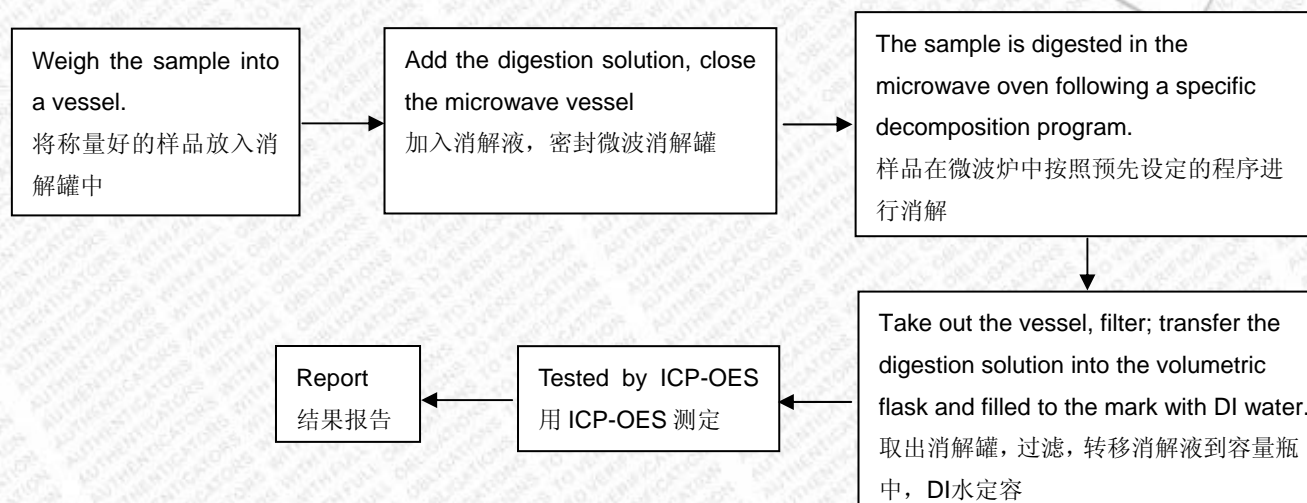
参照 IEC 62321:2008 Ed 1.0 电子电气产品中六种限用物质含量的测定程序

Test Item 测试项目	Pretreatment Method 前处理方法	Measuring Instrument 测试仪器	MDL
Lead 铅	IEC 62321:2008 Ed 1.0 Section 8 IEC 62321:2008 Ed 1.0, 第 8 部分	ICP-OES	2 mg/kg
Cadmium 镉	IEC 62321:2008 Ed 1.0 Section 8 IEC 62321:2008 Ed 1.0, 第 8 部分	ICP-OES	2 mg/kg
Mercury 汞	IEC 62321:2008 Ed 1.0 Section 7 IEC 62321:2008 Ed 1.0, 第 7 部分	ICP-OES	2 mg/kg
Hexavalent Chromium 六价铬	IEC 62321:2008 Ed 1.0 Annex C IEC 62321:2008 Ed 1.0, 附件 C	UV-VIS	2 mg/kg
Polybrominated Biphenyls/ Polybrominated Diphenyl Ethers 多溴联苯及多溴联苯醚	IEC 62321:2008 Ed 1.0 Annex A IEC 62321:2008 Ed 1.0, 附件 A	GC-MS	5 mg/kg

Test Flow:

测试流程:

1. To Determine Lead, Cadmium Content (测定铅, 镉含量):



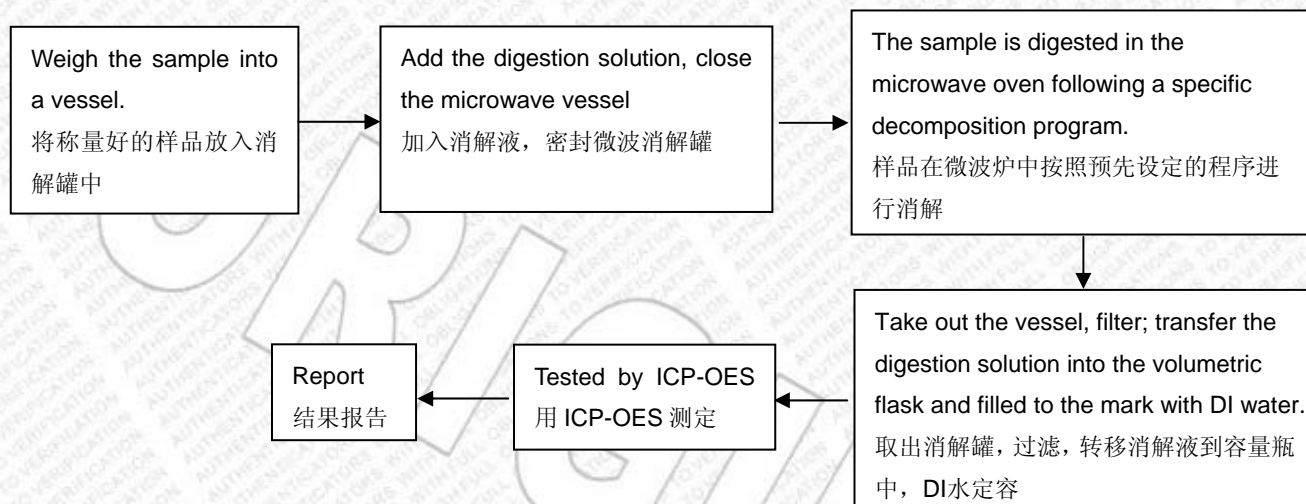
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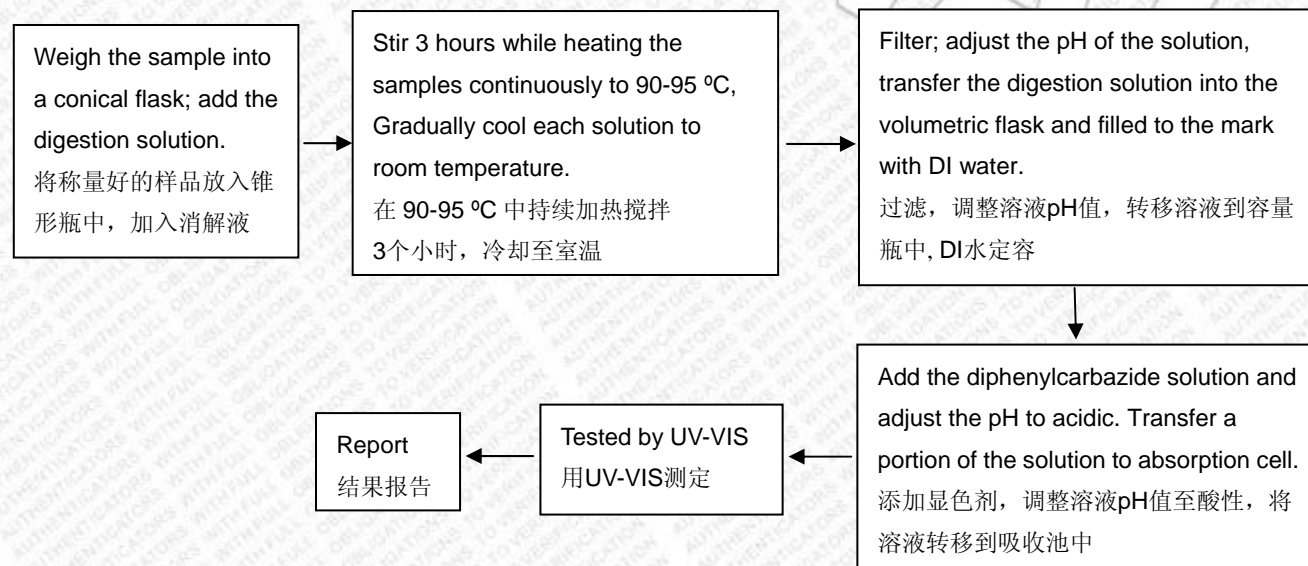
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2. To Determine Mercury Content (测定汞含量):



3. To Determine Hexavalent Chromium Content (for Polymer) (测定六价铬含量) (聚合物):



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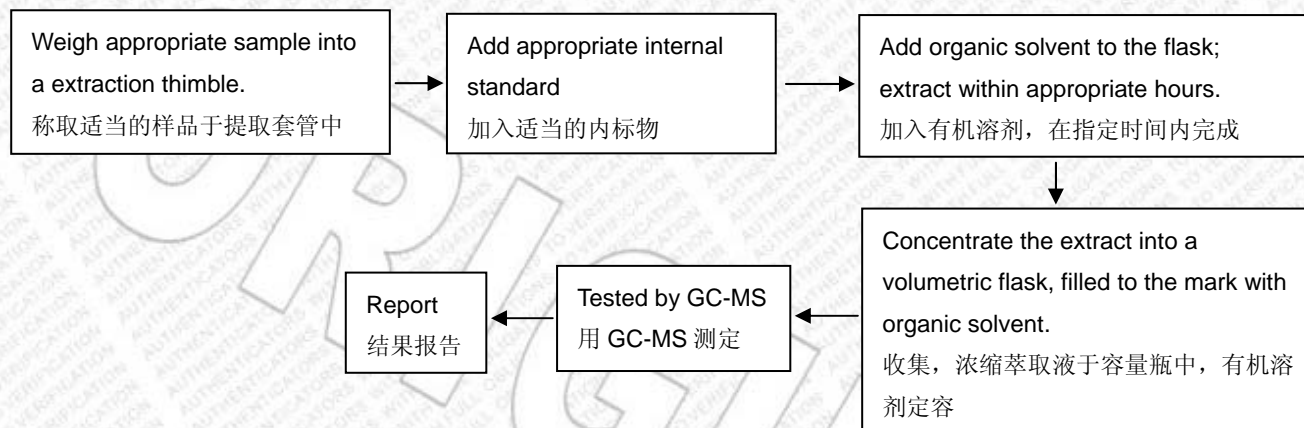
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4. To Determine Polybrominated Biphenyls/Polybrominated Diphenyl Ethers Content

(测定多溴联苯及多溴联苯醚的含量):



Test Results:

测试结果:

Item 项目	Unit 单位	RoHS Limit RoHS 限值	Result (结果)
			A
Lead 铅	mg/kg	1000	4
Cadmium 镉	mg/kg	100	N.D.
Mercury 汞	mg/kg	1000	N.D.
Hexavalent Chromium 六价铬	mg/kg	1000	46

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Item 项目	Unit 单位	RoHS Limit RoHS 限值	Result (结果)
			A
多溴联苯 PBBs	mg/kg	1000	N.D.
一溴联苯 MonoBB	mg/kg	/	N.D.
二溴联苯 DiBB	mg/kg	/	N.D.
三溴联苯 TriBB	mg/kg	/	N.D.
四溴联苯 TetraBB	mg/kg	/	N.D.
五溴联苯 PentaBB	mg/kg	/	N.D.
六溴联苯 HexaBB	mg/kg	/	N.D.
七溴联苯 HeptaBB	mg/kg	/	N.D.
八溴联苯 OctaBB	mg/kg	/	N.D.
九溴联苯 NonaBB	mg/kg	/	N.D.
十溴联苯 DecaBB	mg/kg	/	N.D.
多溴联苯醚 PBDEs	mg/kg	1000	N.D.
一溴联苯醚 MonoBDE	mg/kg	/	N.D.
二溴联苯醚 DiBDE	mg/kg	/	N.D.
三溴联苯醚 TriBDE	mg/kg	/	N.D.
四溴联苯醚 TetraBDE	mg/kg	/	N.D.
五溴联苯醚 PentaBDE	mg/kg	/	N.D.
六溴联苯醚 HexaBDE	mg/kg	/	N.D.
七溴联苯醚 HeptaBDE	mg/kg	/	N.D.
八溴联苯醚 OctaBDE	mg/kg	/	N.D.
九溴联苯醚 NonaBDE	mg/kg	/	N.D.
十溴联苯醚 DecaBDE	mg/kg	/	N.D.

Specimen Description:

样品描述:

A: Black powder 黑色粉末

Note:

备注:

- Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.
- 对于测试铅、镉、汞的样品已完全溶解
- mg/kg=ppm
- N.D.=not detected(<MDL)
- N.D.= 未检出(<MDL)
- MDL=Method Detection Limit
- MDL=方法检测限

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-“Homogeneous material” means one material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes.

- 均质材料：具有一致组成的材料，或者多种材料组成的不能通过旋开、切割、破碎、研磨、摩擦等机械手段拆分成不同材料的材料。

- The test report A001R130410203005-1A1 supersedes the test report A001R130410203005-1 which is withdrawn.

- 报告 A001R130410203005-1A1 取代原报告 A001R130410203005-1，原报告同时作废。

- Photo is included

- 附照片

Photograph of Sample

样品照片



Ferrochrome black

铁铬黑

End of Report

报告结束