

Test Report

No. ES141030020C002

COOL NEW MATERIALS CO., LTD. WUHU BRANCH

芜湖酷科新材料有限公司

WUHU ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE BRANCH PARK 325.326 CENTER B #

芜湖经济技术开发区科创中心 B 园 325.326#

(The Submitted Sample Said To Be)

样品信息描述

Sample Description : Cobalt Black

样品名称 : 钴黑

Material : 29Pigment Black 29

材料 : 颜料黑

Sample Received Date : October 30, 2014

样品接收日期 : 2014.10.30

Testing Completed Date : November 03, 2014

测试完成日期 : 2014.11.03

Test Requested : As requested by client, according to the directive 2011/65/EU (RoHS) and its amended directives, to determine

测试要求

根据客户要求, 依据欧盟指令 2011/65/EU (RoHS), 检测以下项目:

- 1) the content of Cadmium, Lead and Mercury in the submitted sample;
样品中的镉, 铅和汞的含量;
- 2) the content of Hexavalent Chromium in the submitted sample;
样品中的六价铬的含量;
- 3) the content of PBBs (polybrominated biphenyls) and PBDEs (Polybrominated diphenyl-ethers) in the submitted sample.
样品中的多溴联苯以及多溴联苯醚的含量。

Test Results : Please refer to next page (s).

测试结果

请参看随后页面。

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Executive Summary:
执行测试总结:

STANDARD 标 准	CONCLUSION 结 论
Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 欧洲议会及理事会于 2011 年 6 月 8 日决定的关于在电子电器产品中限制使用某些有害物质的指令 2011/65/EU (RoHS)	PASS 合格

Signed for and on behalf of
Shenzhen EMTEK Co., Ltd.

Manager
November 03, 2014

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TEST RESULTS:

测试结果:

Test Method : To refer to the standard IEC 62321:2008 Ed.1, the analyses were respectively performed by
测试方法: 参照标准 IEC 62321:2008 Ed.1, 所得溶液分别用以下适合仪器进行分析检测:

- 1) ICP-OES / AAS;
电感耦合等离子体发射光谱仪 (ICP-OES) / 原子吸收光谱仪 (AAS);
- 2) UV-Vis Spectrophotometer;
紫外-可见光谱仪 (UV-Vis);
- 3) GC-MS.
气相色谱质谱联用仪 (GC-MS)。

Analyte 被分析物	Test Result (mg/kg) 测试结果	MDL (mg/kg)	Law Limit 法规限值 (mg/kg)
	Black powder 黑色粉末		
Cadmium (Cd) 镉 (Cd)	ND	2	100
Lead (Pb) 铅 (Pb)	ND	2	1000
Mercury (Hg) 汞 (Hg)	ND	2	1000
Hexavalent Chromium (Cr ⁶⁺) 六价铬 (Cr ⁶⁺)	ND	2	1000

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TEST RESULTS:

测试结果:

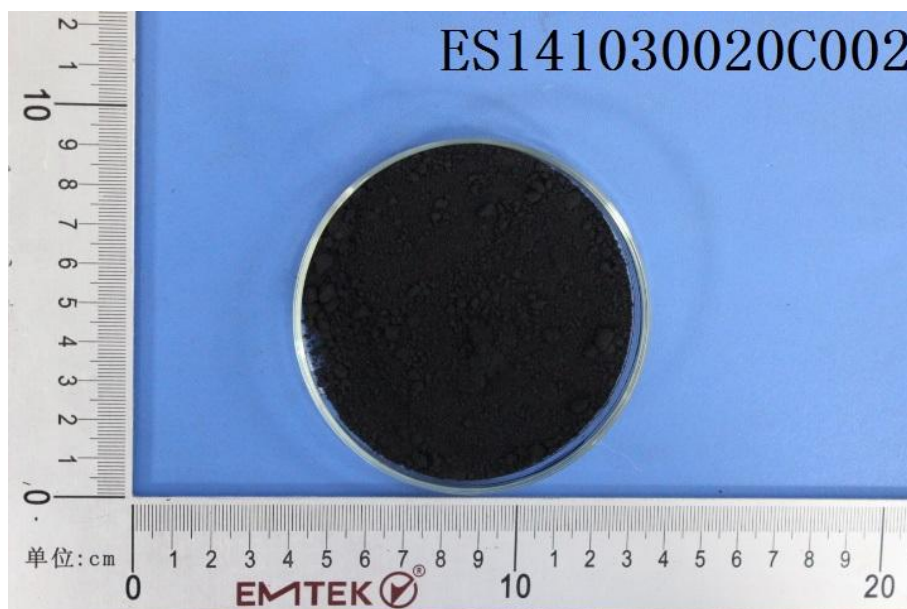
Analyte 被分析物	Test Result (mg/kg) 测试结果	MDL (mg/kg)	Law Limit 法规限值 (mg/kg)
	Black powder 黑色粉末		
Polybrominated Biphenyls (Mono – Deca) (PBBs) 多溴联苯 (1 – 10) (PBBs)	< 50	--	1000
Monobromobiphenyl 单溴联苯	ND	5	--
Dibromobiphenyl 二溴联苯	ND	5	--
Tribromobiphenyl 三溴联苯	ND	5	--
Tetrabromobiphenyl 四溴联苯	ND	5	--
Pentabromobiphenyl 五溴联苯	ND	5	--
Hexabromobiphenyl 六溴联苯	ND	5	--
Heptabromobiphenyl 七溴联苯	ND	5	--
Octabromobiphenyl 八溴联苯	ND	5	--
Nonabromobiphenyl 九溴联苯	ND	5	--
Decabromobiphenyl 十溴联苯	ND	5	--
Polybrominated Diphenylethers (Mono – Deca) (PBDEs) 多溴联苯醚 (1 – 10) (PBDEs)	< 50	--	1000
Monobromodiphenyl ether 单溴联苯醚	ND	5	--
Dibromodiphenyl ether 二溴联苯醚	ND	5	--
Tribromodiphenyl ether 三溴联苯醚	ND	5	--
Tetrabromodiphenyl ether 四溴联苯醚	ND	5	--
Pentabromodiphenyl ether 五溴联苯醚	ND	5	--
Hexabromodiphenyl ether 六溴联苯醚	ND	5	--
Heptabromodiphenyl ether 七溴联苯醚	ND	5	--
Octabromodiphenyl ether 八溴联苯醚	ND	5	--
Nonabromodiphenyl ether 九溴联苯醚	ND	5	--
Decabromodiphenyl ether 十溴联苯醚	ND	5	--

- Note : 1. mg/kg = part per million = ppm
备注 mg/kg = 毫克/千克 = 百万分之一
2. ND = Not Detected (Less than MDL)
ND = 未检测到 (小于 MDL)
3. MDL = Method Detection Limit
MDL = 方法检测限

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Photo Appendix
样品照片

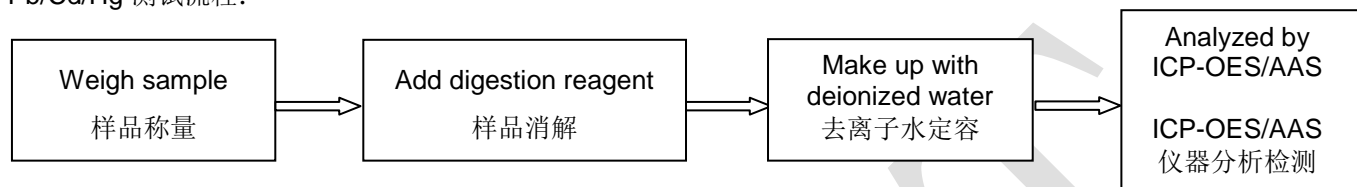


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TEST FLOWCHART 测试流程图

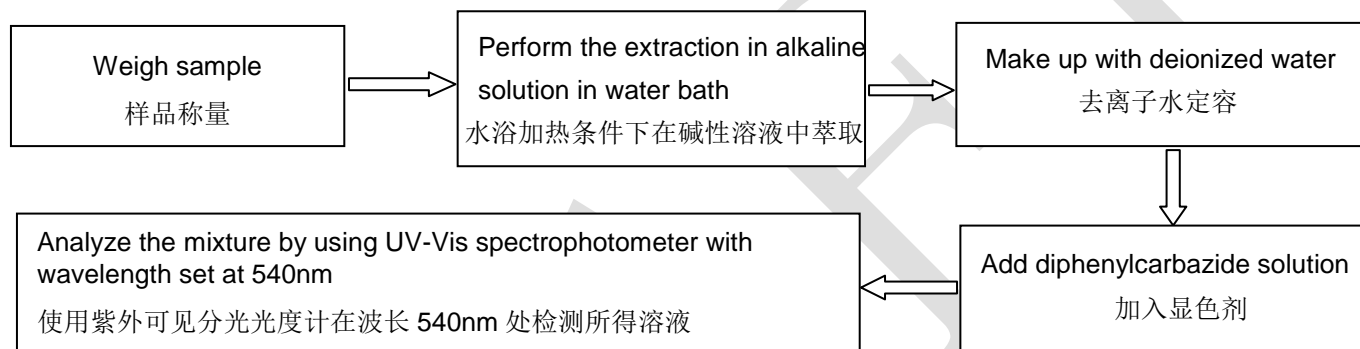
Pb/Cd/Hg Test Process :

Pb/Cd/Hg 测试流程:



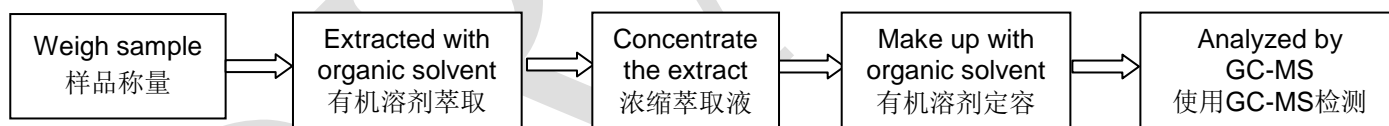
Cr⁶⁺ Test Process:

Cr⁶⁺ 测试流程:



PBBs & PBDEs Test Process:

PBBs & PBDEs 测试流程:



* * * * * The End * * * * *