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**Applicant**: KOOLCORE NEW MATERIALS (WUHU)CO.,LTD.

委托单位 : 芜湖酷科新材料有限公司

Address : ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, WUHU CITY,

ANHUI PROVINCE

地 址 : 安徽芜湖经济技术开发区

Sample Name : Copper chromium black

样品名称 : 铜铬黑

Model : 20160208 型号 : 20160208

Received Date : Jul. 01, 2016

接收日期 : 2016年07月01日

**Test Period** : Jul. 01, 2016 ~ Jul. 07, 2016

检测日期 : 2016年07月01日~2016年07月07日

**Test Requested** 

检测要求

: As requested by client, according to ROHS Directive(EU) 2015/863 amending Annex II to

Directive 2011/65/EU, to determine:

根据客户要求, 依据欧盟 RoHS 指令 2011/65/EU 附录 II 的修订指令 2015/863/EU,

检测以下项目:

1) the content of Lead, Cadmium and Mercury in the submitted sample;

样品中的铅,镉和汞的含量;

2) the content of Hexavalent Chromium in the submitted sample;

样品中的六价铬的含量;

3) the content of Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl-

Ethers(PBDEs) in the submitted sample.

样品中的多溴联苯(PBBs)以及多溴二苯醚(PBDEs)的含量。

Test Results

Please refer to next page (s).

**检测结果** 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
ROHS Directive(EU) 2015/863 amending Annex II to Directive 2011/65/EU—Pb,Cd,Hg, Cr <sup>6</sup> +,PBBs, PBDEs	PASS
欧盟 RoHS 指令 2011/65/EU 附录 Ⅱ 的修订指令 2015/863/EU-Pb,Cd,Hg,Cr <sup>6</sup> +, PBBs, PBDEs	合格

Signed for and on behalf of

EMTEK (Shenzhen) Co.

Tested by:

Tim

Test engineer

Reviewed by:

Jerry

Technical supervisor

Approved by:

Authorized signatory Jul.07, 2016





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Test Results: 检测结果:

#### Test Method:

检测方法:

- 1) to refer to IEC 62321-5: 2013, determine the Lead, Cadmium content by ICP-OES. 参照 IEC 62321-5: 2013, 用 ICP-OES 测定铅、镉的含量。
- 2) to refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES. 参照 IEC 62321-4: 2013, 用 ICP-OES 测定汞的含量。
- 3) to refer to IEC 62321: 2008, determine the Hexavalent Chromium content by UV-VIS. 参照 IEC 62321: 2008, 用 UV-VIS 测定六价铬的含量。
- 4) to refer to IEC 62321: 2008, determine the Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl- Ethers(PBDEs) by GC-MS.

参照 IEC 62321: 2008, 用 GC-MS 测定多溴联苯(PBBs)和多溴二苯醚(PBDEs)的含量。

Analyte 被分析物	Test Result (mg/kg) 检测结果 Black powder 黑色粉末	MDL (mg/kg)	Limit 限值 (mg/kg)
Lead (Pb) 铅 (Pb)	ND	2	1000
Cadmium (Cd) 镉 (Cd)	ND	2	100
Mercury (Hg) 汞 (Hg)	ND	2	1000
Hexavalent Chromium (Cr <sup>6+</sup> ) 六价铬 (Cr <sup>6+</sup> )	264	2	1000
Polybrominated Biphenyls (Mono – Deca) (PBBs) 多溴联苯 (1 – 10) (PBBs)	ND	<u>-</u>	1000
Monobromobiphenyl 一溴联苯	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	7
Hexabromobiphenyl 六溴联苯	ND	5	
Heptabromobiphenyl 七溴联苯	ND	5	A KI OF OF THE O
Octabromobiphenyl 八溴联苯	ND	5	
Nonabromobiphenyl 九溴联苯	ND	5	
Decabromobiphenyl 十溴联苯	ND	5	<u>-</u>





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Analyte 被分析物	Test Result (mg/kg) 检测结果 Black powder 黑色粉末	MDL (mg/kg)	Limit 限值 (mg/kg)
Polybrominated Diphenylethers (Mono – Deca) (PBDEs) 多溴二苯醚 (1 – 10) (PBDEs)	ND		1000
Monobromodiphenyl ether 一溴二苯醚	ND	5	<u>-</u>
Dibromodiphenyl ether 二溴二苯醚	ND	5	
Tribromodiphenyl ether 三溴二苯醚	ND	5	
Tetrabromodiphenyl ether 四溴二苯醚	ND	5	
Pentabromodiphenyl ether 五溴二苯醚	ND	5	
Hexabromodiphenyl ether 六溴二苯醚	ND	5	
Heptabromodiphenyl ether 七溴二苯醚	ND	5	
Octabromodiphenyl ether 八溴二苯醚	ND	5	
Nonabromodiphenyl ether 九溴二苯醚	ND	5	
Decabromodiphenyl ether 十溴二苯醚	ND	5	

Note: 1. mg/kg = milligram per kilogram = ppm

MDL = Method Detection Limit

备注: mg/kg = 毫克/千克 = 百万分之一

MDL = 方法检测限

ND = Not Detected (Less than MDL)

ND = 未检测到 (小于 MDL)

2. Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been digested thoroughly.

对于测试铅、镉、汞的样品已完全消解。





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### Sample Photo 样品照片



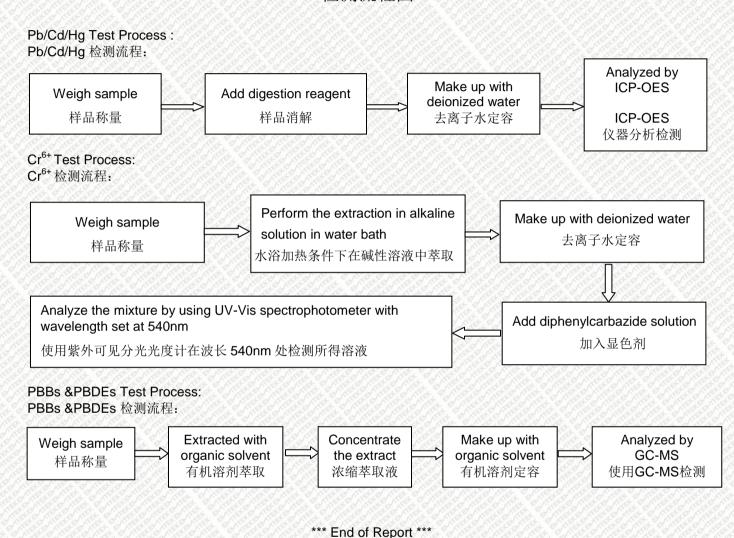




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### TEST FLOWCHART

检测流程图



\*\*\* 报告结束 \*\*\*

