



测试报告

报告编号： TST20230640107-3C-XG-01 日期:2023 年 06 月 30 日 页码: 第 1 页 共 9 页

申请商： 镇江金星电光源有限公司
地 址： 江苏镇江丹徒区上党镇兴业路 5 号
制造商： 镇江金星电光源有限公司
地 址： 江苏镇江丹徒区上党镇兴业路 5 号

以下测试样品信息是由申请者所提供及确认：

样品名称： 氙灯
主 型 号： NE-2/6×13
系列型号： NE-2/4x10,5x13,5x16,6x16,4x10+100KOHM/RT,
4x10+1/4W150KOHM/RT+1/6W470KOHM/RT,
6x13+1/4W150KOHM/RT+1/8W470KOHM/RT,
6x13+150KOHM/RT,NE-2G/6x13+150KOHM/RT
接样日期： 2023 年 06 月 21 日
测试日期： 2023 年 06 月 21 日 至 2023 年 06 月 30 日
测试要求： 根据客户要求，依据欧盟 ROHS 2.0 指令-2011/65/EU 及修订指令(EU) 2015/863
《电器电子产品有害物质限制指令》测试样品中铅 (Pb)、镉 (Cd)、汞 (Hg)、
六价铬 (Cr VI)、多溴联苯 (PBBs)、多溴二苯醚 (PBDEs)、邻苯二甲酸二丁
酯 (DBP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二异辛酯 (DEHP)、邻苯二甲
酸二异丁酯(DIBP)的含量。
测试方法： 请参见下一页
测试结果： 请参见下一页
测试结论： 该样品测试结果符合欧盟 RoHS 2.0 指令—2011/65/EU 及修订指令(EU)
2015/863 和(EU)2017/2102(《关于限制在电子电器设备中使用某些有害物质的指
令》)限值要求。

授权签字人：

Andy

郑灿城 / 技术负责人



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1. 铅、汞、镉、六价铬、多溴联苯和总多溴二苯醚

A. 拆解、解离和机械制样参考 IEC 62321-2:2013 《拆解、解离和机械制样》。

B. 参照 IEC 62321-1:2013, 对本报告中照片所示的样品进行了测试。

(1) 铅、汞、镉、总铬和总溴的筛选参考 IEC 62321-3-1:2013, 用 x 射线荧光光谱法筛选铅、汞、镉、总铬和总溴。

(2) 湿化学试验法

测试项目	测试方法	测试仪器	单位	检测限	限值
铅(Pb)	IEC62321-5:2013	ICP-AES	mg/kg	2	1000
镉(Cd)	IEC62321-5:2013	ICP-AES	mg/kg	2	100
汞(Hg)	IEC 62321-4:2013/AMD1:2017	ICP-AES	mg/kg	2	1000
六价铬 Cr(VI) 金属	IEC62321-7-1:2015	UV-Vis	$\mu\text{g}/\text{cm}^2$	0.1	0.13
六价铬 Cr(VI) 非金属	IEC62321-7-2:2017	UV-Vis	mg/kg	8	1000
多溴联苯(PBBs)	IEC62321-6:2015	GC-MS	mg/kg	5	1000
多溴二苯醚(PBDEs)	IEC62321-6:2015	GC-MS	mg/kg	5	1000

多溴联苯(PBBs)		多溴二苯醚(PBDEs)	
一溴联苯	六溴联苯	一多溴二苯醚	六多溴二苯醚
二溴联苯	七溴联苯	二多溴二苯醚	七多溴二苯醚
三溴联苯	八溴联苯	三多溴二苯醚	八多溴二苯醚
四溴联苯	九溴联苯	四多溴二苯醚	九多溴二苯醚
五溴联苯	十溴联苯	五多溴二苯醚	十多溴二苯醚

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测试结果：

编号	样品描述	XRF 测试结果					化学测试结果 (mg/kg)	结论
		铅	镉	汞	铬	溴		
1	玻璃	BL	BL	BL	BL	---	---	符合
2	金属引脚	X	BL	BL	BL	---	Pb:144	符合
3	绝缘漆	BL	BL	BL	BL	BL	---	符合

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备注:

- a. 对于限用物质是 PBBs 和 PBDEs,其结果显示的是总 Br 含量; 限用物质是 Cr(VI), 其结果显示的是总 Cr 含量。
- b. RoHS 元素的 XRF 筛选测试——读数可能与样品中实际含量不同, 成分不均匀。
- c.根据 IEC 62321-3- 1:2013, 如果浓度超过以下警戒范围, 我们建议客户用精确的化学测试方法测试样品, 如用 ICP-AES 测试 Cd,Pb,Hg;用 UV-Vis 测试 Cr(VI);用 GC-MS 测试 PBBs 和 PBDEs(单位: mg/kg)。

不同基质的 XRF 筛选限值:

材料	含量 (毫克/千克)				
	镉	铬	铅	汞	溴
聚合物材料	$BL \leq 60 < X < 140 \leq OL$	$BL \leq 640 < X$	$BL \leq 670 < X < 1330 \leq OL$	$BL \leq 660 < X < 1340 \leq OL$	$BL \leq 290 < X$
金属材料	$BL \leq 60 < X < 140 \leq OL$	$BL \leq 640 < X$	$BL \leq 670 < X < 1330 \leq OL$	$BL \leq 660 < X < 1340 \leq OL$	---
复合材料	$BL \leq 40 < X < 160 \leq OL$	$BL \leq 440 < X$	$BL \leq 470 < X < 1530 \leq OL$	$BL \leq 460 < X < 1540 \leq OL$	$BL \leq 240 < X$

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- 备注：
- BL = 低于限值
 - OL = 超出限值
 - X = 不确定，该区域需要通过 ICP-AES(检测 Pb、Cd、Hg)、UV-Vis(检测 Cr(VI))和 GC-MS(检测 PBBs、PBDEs)进行进一步的化学检测。
 - “---” = 不适用
 - mg/kg=0.0001%
 - N.D.=未检出(<MDL)
 - MDL = 方法检出限
 - 阴性 = 不含 Cr(VI)，在使用 50cm² 样品表面积时，沸水萃取液中检测到的 Cr(VI) 浓度小于 0.02 mg/kg。
 - *=根据 2011/65/EU 附件，铅作为合金元素是钢，铅以重量计不超过 0.35%，铅作为合金元素是铝，铅以重量计不超过 0.4%，作为铜合金，铅以重量计不超过 4%，可以豁免。

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2.邻苯—DBP, BBP, DEHP & DIBP

检测依据:

测试项目	测试方法	测试仪器	单位	检测限	限值
邻苯二甲酸二正丁酯(DBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
邻苯二甲酸丁苄酯(BBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
邻苯二甲酸二(2-乙基)己酯(DEHP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
邻苯二甲酸二异丁酯(DIBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000

测试结果:

样品描述	测试项目 (mg/kg)				结论
	DBP	BBP	DEHP	DIBP	
3	N.D.	N.D.	N.D.	N.D.	符合

备注: - mg/kg=0.0001%
-ND=未检出(<MDL)

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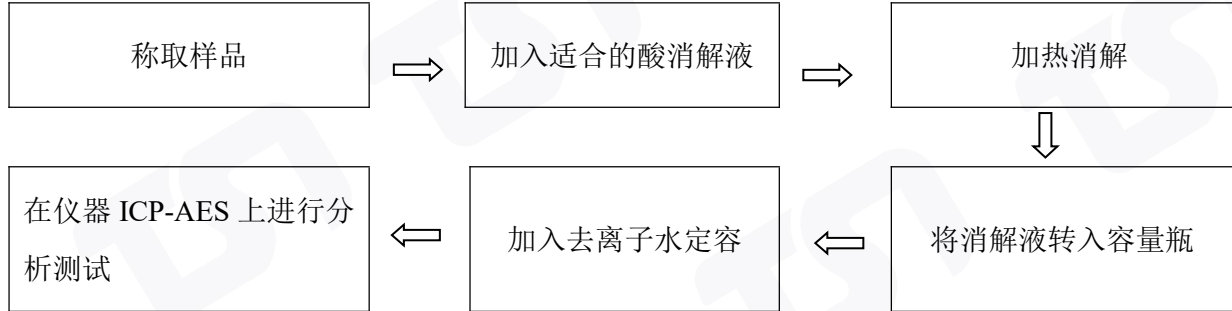


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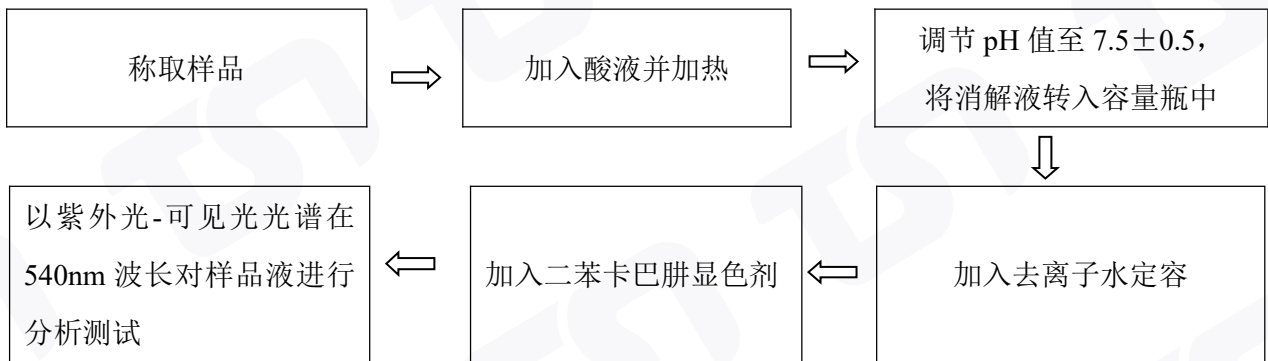
测试流程:

1. 铅和镉含量的测试流程:

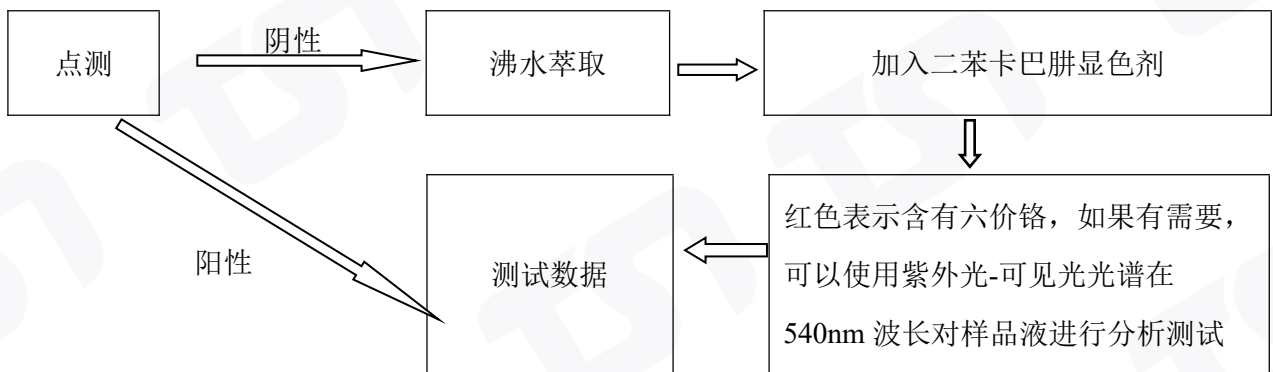


2. 六价铬含量的测试流程:

非金属测试流程



金属测试流程



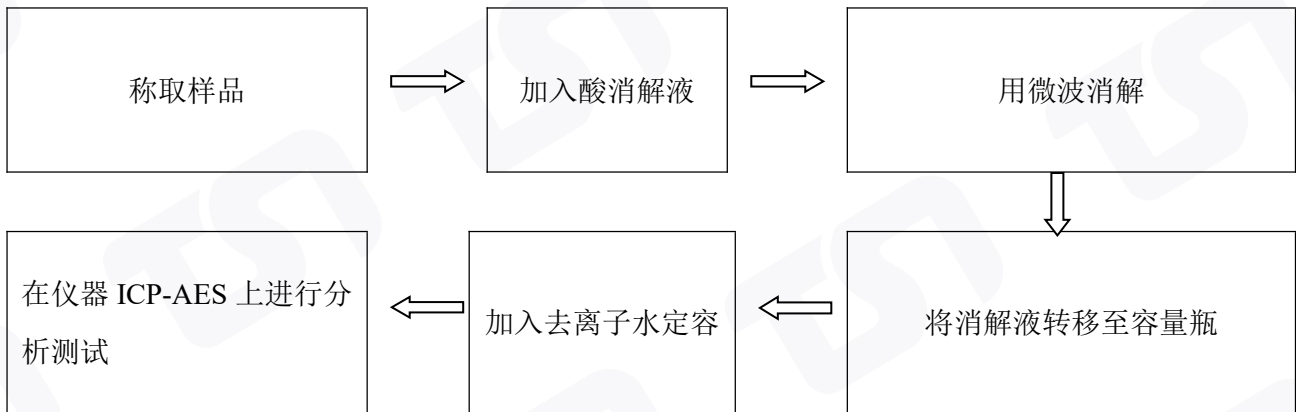
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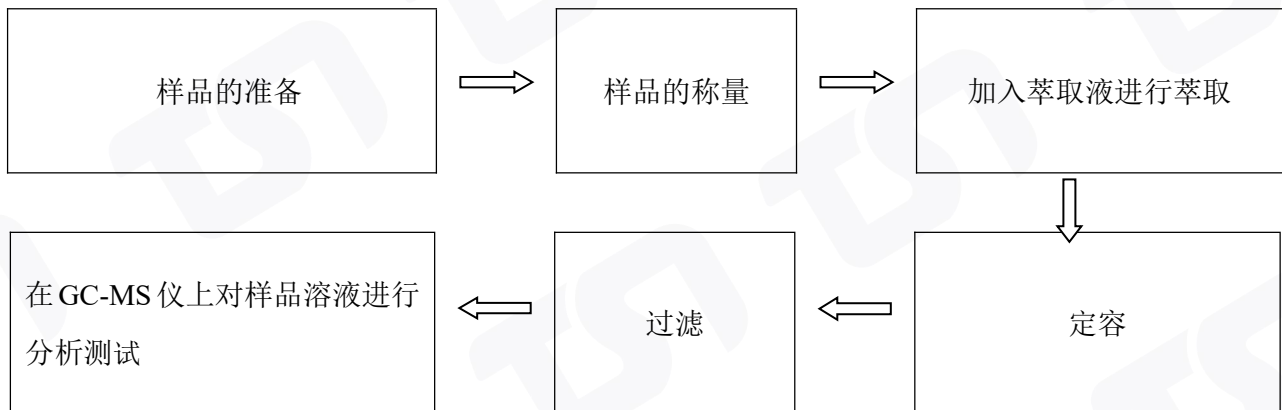
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3.汞含量的测试流程:



4.多溴联苯、多溴二苯醚、邻苯二甲酸酯的测试流程:



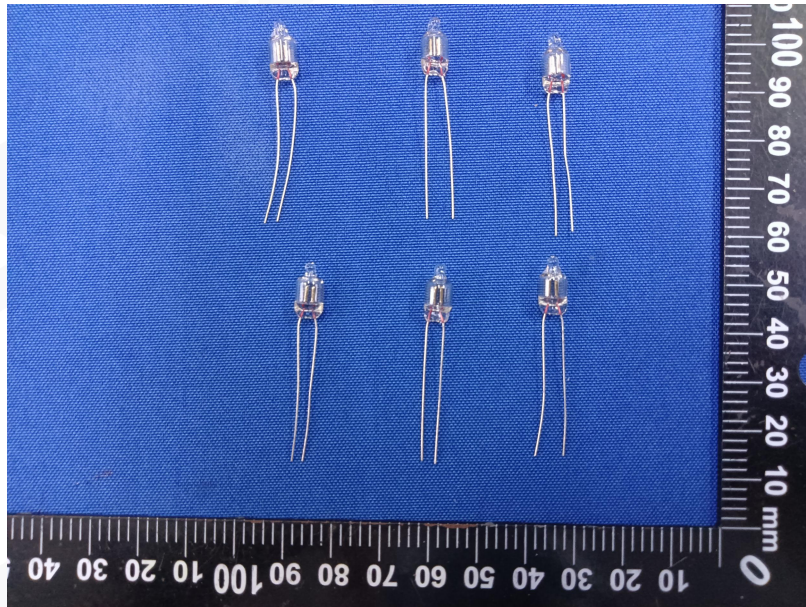
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样品图片:



*** 报告完 ***

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