



中化所  
Chinese Institute of Chemical  
Technology

北京中科光析化工技术研究所 (材料实验室)  
Beijing ZKGC Research Institute of Chemical Technology (Material Lab)

报告编号 (Report ID) : ZKGC20201217-27-01-001

日期 (Date) : 2021.01.07

第 1 页 共 6 页

# 测试报告

## Test Report

报告编号 (Report ID) : ZKGC20201217-27-01-001

样品名称 (Sample Name) : 核磁管



委托单位 (Client) : 河北曼斯韦尔仪器有限公司

测试类型 (Test Type) : 委托测试

测试要求 (Test Requirement) : 按照委托方要求测试

分析结果 (Test Result) : 见后页

编制

何雨

审核

崔媛媛

签发

潘世国



## 研究测试报告

### (Research Test Report)

#### 研究测试结果 (Research Test Result)

样品名称及编号 Sample Name and NO.	测试项目 Test Item	测试结果 Test Result	单位 Unit
核磁管 /20201217-27-01-001	Na <sub>2</sub> O	4.35	%
	Al <sub>2</sub> O <sub>3</sub>	2.24	%
	SiO <sub>2</sub>	80.24	%
	P <sub>2</sub> O <sub>5</sub>	0.71	%
	K <sub>2</sub> O	515.68	ppm
	CaO	0.14	%
	TiO <sub>2</sub>	178.64	ppm
	Fe <sub>2</sub> O <sub>3</sub>	666.33	ppm
	ZrO <sub>2</sub>	605.7	ppm
B <sub>2</sub> O <sub>3</sub>	12.10	%	

结论: 仅根据以上化学成分结果推断样品为高硼硅玻璃。



### 研究报告

### (Research Test Report)

研究测试结果 (Research Test Result):

样品名称及编号 Sample Name and NO.	测试项目 Test Item	测试结果 Test Result	指标 Index	结论 Conclusion
核磁管 /20201217-27-01-001	膨胀系数, $10^{-6} K^{-1}$ (20-300°C)	3.4	$3.3 \pm 0.1$	符合
	直线度, mm	0.1	$\leq 1$	符合
	耐酸性能	1 级	1 级	符合
	耐碱性能	A1 级	不低于 A2 级	符合
	MHz Rating 级别	符合要求	High-Throughput 高通量	符合
	壁厚偏度, mm	0.01	$\leq 0.05$	符合
	裂纹	符合要求	任何部位不应有裂纹	符合
	结石和结瘤	符合要求	不应有直径大于 0.5mm 结石 不应有直径大于 1.0mm 结瘤	符合
	凸度, $\mu m$	55	$\leq 60$	符合
	同心度, $\mu m$	23	$\leq 25$	符合

参考标准: GB/T 34843-2017、GB 12414-1995

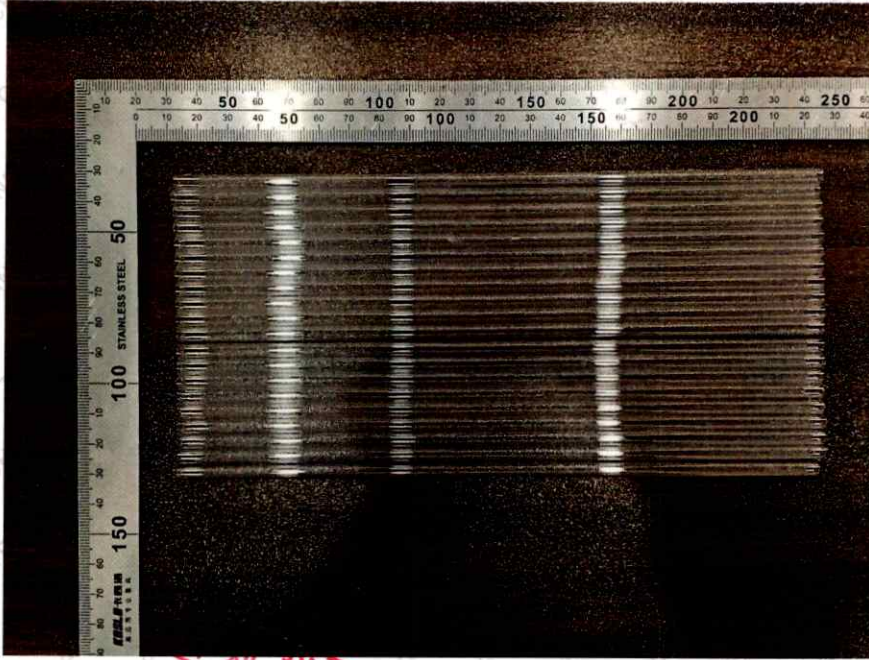


报告编号 (Report ID) : ZKGC20201217-27-01-001

日期 (Date) : 2021.01.07

第 4 页 共 6 页

样品图片 (Sample Picture) :



对样品负责



扫描查询报告真伪

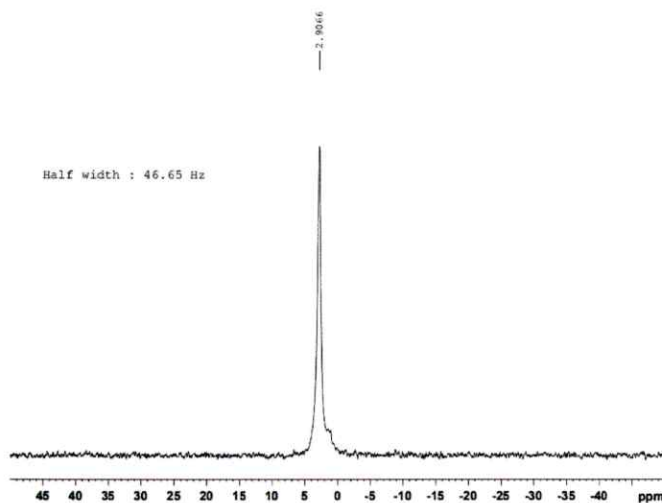
报告编号 (Report ID) : ZKGC20201217-27-01-001

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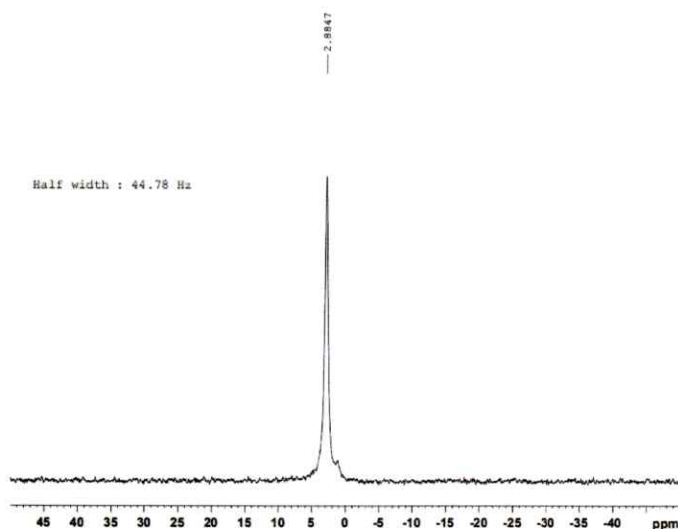
第 5 页 共 6 页

研究测试报告附件 (Research Test Report Attachment):

### 400M 核磁结果谱图



### 600M 核磁结果谱图



\*\*\* 报告结束 \*\*\*

(END)



### 注意事项

1. 服务双方必须遵守分析委托登记表/服务合同中服务通用条款的规定;

Both parties must comply with the provisions of the general service terms in the analysis of entrusted registration form/service contract;

2. 本报告无服务方签字人签名无效; 未加盖“北京中科光析化工技术研究所”科研测试专用章一律无效;

The report is invalid without the signature of the responsible person of the service party; The report is invalid without the special seal for scientific research and test of “Beijing ZKGC Research Institute of Chemical Technology”;

3. 由此测试申请所发出的任何结果, 服务方会严格地为委托方保密。除非相关政府部门、法律或法院要求, 否则未经委托方同意, 服务方不得就结果内容向第三方讨论或披露;

Any result of the test application will be strictly confidential to the client. Unless required by relevant government departments, laws or courts, the service party shall not discuss or disclose the results to any third party without the consent of the principal;

4. 本报告全部或部分复制、私自转让、盗用、冒用、涂改或以其它任何形式篡改的均属无效, 本单位将对上述行为追究其相应法律责任。

Any copy, transfer, misappropriation, false use, alteration or any other form of tampering of the report in whole or in part is invalid. The service party shall strictly investigate the corresponding legal liability for the above-mentioned acts

5. 测试结果得出的数据或结论是基于特定的时间、特定的方法以及特定的适用标准对测试样品特征、成份、性能或质量进行的描述, 采用不同的方法和标准、在不同的环境条件下对样品进行测试有可能得出不同的结论;

The data or conclusions derived from the test results are descriptions of the characteristics, components, performance or quality of the test samples based on the specific time, method and applicable standards, using different methods and standards, in different environmental conditions to detect samples may lead to different conclusions;

6. 服务方接受样品进行测试的前提是, 委托方不能将该测试报告做为进行法律行动的依据;

The premise that the service party accepts the sample for testing is that the client cannot use the test report as a basis for legal action;

7. 测试结果仅代表送检样品, 不对送检样品所代表的批量负责; 样品来源信息由委托方提供, 并保证来源信息的真实性, 服务方不负责其真实性; 本报告有效期 12 个月。

The test result only represents the sample sent for inspection, and shall not be responsible for the batch represented by the sample sent for inspection; The sample source information shall be provided by the client and the authenticity of the source information shall be guaranteed. The service party shall not be responsible for its authenticity; The present report is valid for 12 months.

8. 本报告仅对所测样品的测试结果负责, 测试数据仅反映对该样品的评价且仅用于委托方科研、教学或内部质量控制、企业产品研发等目的; 出具的检测数据结果仅限为特定委托方内部使用, 不对社会具有证明作用, 不得用于维权、纠纷、司法等法律用途, 对于测试数据的使用、使用所产生的直接或间接损失及一切法律后果, 服务方不承担任何经济和法律责任。

This report is only responsible for the test results of the tested samples, and the test data only reflect the evaluation of the samples and are only used for the purposes of scientific research, teaching or internal quality control, enterprise product development, etc. The test results issued are limited to the internal use of specific clients, and have no proof role for the society, can't be used for legal purposes such as safeguarding rights, disputes, judicature, etc. The service party shall not assume any economic and legal liability for the use of test data, direct or indirect losses caused by the use and all legal consequences.

9. 由于服务方的原因导致需要对测试结果内容进行更改的, 服务方应当重新为委托方出具测试结果, 并承担更改测试结果产生的费用, 委托方向服务方交还原测试结果。由于委托方自身的原因导致需要对测试结果内容进行更改的, 委托方应当向服务方提出修改申请。经服务方审核同意予以重新出具测试结果的, 相关费用由委托方承担, 委托方向服务方交还原测试结果。

If the content of the test results needs to be changed due to the reasons of the service party, the service party shall issue the test results for the applicant again, and bear the cost of changing the test results, and entrust the service party to submit the restore test results. If the content of the test results needs to be changed due to the reasons of the applicant, the applicant shall submit an application for modification to the service party. If the test result is re-issued after the examination and approval of the service party, the related expenses shall be borne by the applicant, and the applicant shall submit the test result to the service party for restoration.