氧指数试验原始记录

共 页 第 页

|  |  |
| --- | --- |
| 样品编号：{{TestMaterialId}} | 检验标准：GB/T 2406.2-2009 |
| 材料：{{material}} | 试样类别：{{TestMaterialType}} |
| 点燃方法：{{TestIgniteType}} | 氧指数[浓度,%(体积分数)]：{{TestFinalLoi}} |
| 氧浓度增量(d)：{{TestStepLength}}%(体积分数) | |

第1部分：氧浓度间隔≤1%(体积分数)的一对"X"和"O"反应的氧浓度测定(按8.5)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 氧浓度(体积分数)/% | {{step0concentration}} | {{step1concentration}} | {{step2concentration}} | {{step3concentration}} | {{step4concentration}} | {{step5concentration}} | {{step6concentration}} | {{step7concentration}} | {{step8concentration}} | {{step9concentration}} |
| 燃烧时间/s | {{step0time}} | {{step1time}} | {{step2time}} | {{step3time}} | {{step4time}} | {{step5time}} | {{step6time}} | {{step7time}} | {{step8time}} | {{step9time}} |
| 燃烧长度/mm | {{step0length}} | {{step1length}} | {{step2length}} | {{step3length}} | {{step4length}} | {{step5length}} | {{step6length}} | {{step7length}} | {{step8length}} | {{step9length}} |
| 反应("X"或"O") | {{step0action}} | {{step1action}} | {{step2action}} | {{step3action}} | {{step4action}} | {{step5action}} | {{step6action}} | {{step7action}} | {{step8action}} | {{step9action}} |

此反应中的"O"反应的氧浓度=18.0%(体积分数)(该浓度将再次用于第二部分首次测量的浓度)。

第2部分：氧指数的测定(按8.6)

连续改变氧浓度的步长d=0.2%(体积分数)[除非另有说明，首选0.2%(体积分数)]。

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | *NT*系列测量 | | | | | | | | | | | |
|  | *NL*系列测量(8.6.1和8.6.2) | | | | | （8.6.3） | | | | | | Cf |
| 氧浓度(体积分数)/% | {{step10concentration}} | {{step11concentration}} | {{step12concentration}} | {{step13concentration}} | {{step14concentration}} | | {{step15concentration}} | {{step16concentration}} | {{step17concentration}} | {{step18concentration}} | {{step19concentration}} | |
| 燃烧时间/s | {{step10time}} | {{step11time}} | {{step12time}} | {{step13time}} | {{step14time}} | | {{step15time}} | {{step16time}} | {{step17time}} | {{step18time}} | {{step19time}} | |
| 燃烧长度/mm | {{step10length}} | {{step11length}} | {{step12length}} | {{step13length}} | {{step14length}} | | {{step15length}} | {{step16length}} | {{step17length}} | {{step18length}} | {{step19length}} | |
| 反应("X"或"O") | {{step10action}} | {{step11action}} | {{step12action}} | {{step13action}} | {{step14action}} | | {{step15action}} | {{step16action}} | {{step17action}} | {{step18action}} | {{step19action}} | |
|  | 栏数(2、3、4、5)：{{TestColumnOfK}} | | | | | 行数(1~16)：{{TestRowOfK}} | | | | | | |
|  | 由表4获得的k值：{{TestSignedKWithoutKs}} | | | | | | | | | | | |
|  | 故k={{TestSignedKWithKs}} | | | | | | | | | | | |

*OI = cf + kd* = {{step19concentration}} + ({{TestSignedKWithKs}}X{{TestStepLength}})

= {{TestFinalLoi}} %（报告*OI* 时取一位小数）

= {{TestFinalLoi2}} %（为按第3部分要求计算和确定 *d* 值， 取两位小数）

第三部分：氧浓度步长%d的校验（按8.4.4 和 9.3）

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| *Ci* | {{ci0}} | {{ci1}} | {{ci2}} | {{ci3}} | {{ci4}} | {{ci5}} |
| *OI* | {{TestFinalLoi2}} | {{TestFinalLoi2}} | {{TestFinalLoi2}} | {{TestFinalLoi2}} | {{TestFinalLoi2}} | {{TestFinalLoi2}} |
| *Ci-OI* | {{ci\_oi0}} | {{ci\_oi1}} | {{ci\_oi2}} | {{ci\_oi3}} | {{ci\_oi4}} | {{ci\_oi5}} |

标准偏差的估算：

*σ=sqrt{sum[(Ci-OI)^2]/(n-1)} =* *{{TestSigma}}*

*2/3\*σ = {{TestSigma23}}*

*d = {{*TestStepLength*}}*

*3/2\*σ = {{TestSigma32}}*

*校验结果：**{{TestChceckStepLength}}*

使用仪器：

|  |  |  |  |
| --- | --- | --- | --- |
| 1、 | NH-OI-01型智能氧指数测定仪 |  | 仪器编号： |
| 2、 | 1000mm钢直尺 | 精度：1mm | 仪器编号： |
| 3、 | 秒表 | 精度：±0.25s | 仪器编号： |

|  |  |  |
| --- | --- | --- |
| 检验环境：{{temperature}}℃，{{humidity}}%RH | 检验日期：{{TestDate}} | 测试员：{{TestOperator}} |