

# Alumina Ceramic Rod



## chemical composition and physical properties

|   | 95series    | 99series     | 995series |
|---|-------------|--------------|-----------|
| Al <sub>2</sub> O <sub>3</sub> (%)                        | ≥95         | ≥99          | ≥99.5     |
| SiO <sub>2</sub> (%)                                      | <0.3        | <0.2         | <0.04     |
| Fe <sub>2</sub> O <sub>3</sub> (%)                        | <0.1        | <0.1         | <0.05     |
| Alkaline substances (%)                                   | <0.1        | <0.1         | <0.08     |
| Density (g/cm <sup>3</sup> )                              | 3.7         | 3.89         | 3.91      |
| Hardness (MOhs)   | 8.8         | 9            | 9         |
| Expansion coefficient (10 <sup>-6</sup> K <sup>-1</sup> ) | 8.5         | 8.1          | 7.6       |
| Rate of water absorption (%)                              | <0.01       | <0.01        | <0.01     |
| Expansion strength (Mpa)                                  | 2000        | 3000         | 3800      |
| Color   | multicolour | white, ivory | ivory     |

## standard dimension

Alumina ceramic rods can be supplied in longer lengths (up to 2500mm long). We can also custom cut shorter lengths to your specifications.

The sizes of the tube's outer diameter range from 0.8mm – 200mm.

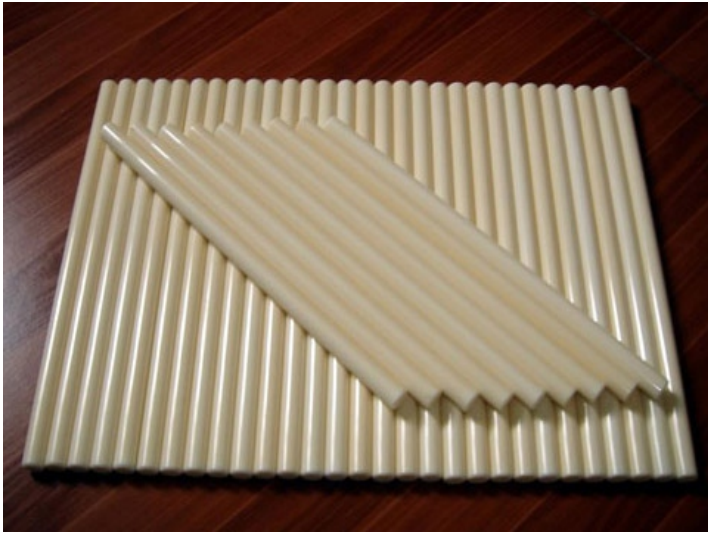
Custom Product: Triangular rod, square rod, Other Styles.

## manufacturing process

Isostatic Processing, Extrusion processing, dry pressing, slip casting.

Alumina ceramic rods are considered to have better mechanical strength and better chemical resistance. Alumina ceramic rods also have excellent abrasion resistance. alumina ceramic rods are widely used in chemical fiber, textile and chemical etc. Industries.

# 氧化铝陶瓷实心棒



## 产品技术指标

|  | 95series | 99series | 995series |
|--|----------|----------|-----------|
| Al <sub>2</sub> O <sub>3</sub> (%)       | ≥95      | ≥99      | ≥99.5     |
| SiO <sub>2</sub> (%)                     | <0.3     | <0.2     | <0.04     |
| Fe <sub>2</sub> O <sub>3</sub> (%)       | <0.1     | <0.1     | <0.05     |
| 碱性物质 (%)                                 | <0.1     | <0.1     | <0.08     |
| 密度 (g/cm <sup>3</sup> )                  | 3.7      | 3.89     | 3.91      |
| 硬度 (MOhs)                                | 8.8      | 9        | 9         |
| 膨胀系数 (10 <sup>-6</sup> K <sup>-1</sup> ) | 8.5      | 8.1      | 7.6       |
| 吸水率 (%)                                  | <0.01    | <0.01    | <0.01     |
| 抗压强度(Mpa)                                | 2000     | 3000     | 3800      |
| 颜色                                       | 多色       | 白色、象牙黄   | 象牙黄       |

## 产品尺寸(mm)

氧化铝陶瓷实心棒长度最长可以达到2500mm，也可以根据客户要求制作相应长度。

氧化铝陶瓷实心棒外径可从0.5mm至200mm。

根据客户要求我们也可以制作三角、四方、六边等异型实心棒。

根据不同使用要求可选择挤制成型、注浆成型、干压成型、等静压成型等工艺。

氧化铝陶瓷棒有密度高、耐高温、耐磨、耐化学腐蚀、抗磁、电绝缘等特性。可用于极度恶劣的环境及特殊工况,广泛应用于航空航天、石油化工、电子设备,冶金电力、纺织、医疗器械、热工仪表等领域。

根据客户要求，我们可以生产氧化锆陶瓷棒。