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Aluminum Oxide Ceramic Tube



Aluminum oxide ceramic tubes have excellent electrical insulation, high corrosion resistance, and low thermal expansion coefficient. In traditional industry, aluminum oxide ceramic tubes are often used as spray tubes, gas nozzles, and insulators. Due to their good hardness at high temperatures, they are used as materials for industrial furnaces and thermocouple protection tubes.

1. Main indicators of alumina ceramic tube

Item	Unit	value
Al ₂ O ₃	%	97-98
Density	g/cm ³	3.7-3.9
hardness	Gpa	14-18
C.C.S	kpsi	300-330
Bending strength	kpsi	50-60
Tensile strength	kpsi	30-33
Thermal conductivity	W/m.k	25-32
Working temperature	°C	1500-1750
dielectric constant		9.5-9.8

2. Product description of alumina ceramic tube

The product is mainly made of Al₂O₃ as the raw material, with metal oxide added as the flux, and sintered at high temperature of 1650 °C ~1800 °C. The product belongs to precision ceramics, with a smooth surface and high density. Low friction coefficient, second only to diamond in hardness, resistant to various acids, alkalis, salt

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erosion, high temperature resistance, wear resistance, widely used in electric heating appliances, petrochemicals, machinery, textiles, automobiles, industrial kilns and other fields.

Alumina ceramic pipes can be formed by dry pressing, isostatic pressing, or injection molding according to different product specifications and requirements. Finally, they can be processed as needed, such as cutting, grinding, etc., to obtain qualified products that meet the requirements.

3. Main features of the product

- 1) High hardness, high strength, its bending strength and fracture toughness are superior to metal materials
- 2) High temperature resistance, applied at temperatures between 1500-1750 °C
- 3) Corrosion resistant, resistant to various acids, alkalis, and salt erosion
- 4) Good insulation and thermal insulation performance

4. Main purpose of the product

Widely used in chemical, power, metallurgy and other fields, it is made into products such as pipelines, nozzles, high-temperature protection pipes, etc.

Do you want to find a professional supplier of Aluminum Oxide Ceramic Tube?

Do you want to find a stable and credible supplier?

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