

China-Yixing Longly Refractories 99 Alumina Ceramic Tubes & Rods

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

LONGLY's alumina ceramic tubes and rods (the tolerances of +/- 0.02mm could be reached by mechanical or electronic finishing or mirror surface finishing) have high hardness, wear resistance, insulation and high temperature resistance. Alumina ceramic tubes are mainly applicable to the material conveying with wear resistant and heavy scouring resistant demands, such as material conveying pipelines for coal-fired power generation, metallurgical and geological industries. Meanwhile they can be used as fuse insulating tube on the electric and electronic appliances. Alumina ceramic rods are used as resistor's ceramic matrix and ceramic top pillar on two-metal thermostat. Information Provided by China Yixing Longly Refractories Co. Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_China-Yixing-Longly-Refractories-99-Alumina-Ceramic-Tubes-Rods.php

Physical Properties	Metric	English	Comments
Bulk Density	3.80 - 3.90 g/cc	0.137 - 0.141 lb/in ³	
Water Absorption	<= 0.0020 %	<= 0.0020 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Flexural Strength	>= 580 MPa	>= 84100 psi	cold bending
Compressive Strength	>= 560 MPa	>= 81200 psi	Ambient

Thermal Properties	Metric	English	Comments
CTE, linear	7.80 - 8.30 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.33 - 4.61 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 800 °C	@Temperature 77.0 - 1470 °F	
Thermal Conductivity	33.0 W/m-K	229 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	>= 1600 °C	>= 2910 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	98.2 - 99.5 %	98.2 - 99.5 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	
	@Temperature 100 °C	@Temperature 212 °F	
Dielectric Strength	15.2 - 16.7 kV/mm	386 - 424 kV/in	DC Breakdown Strength

Electrical Properties	Metric	English	Comments
	18.0 kV/mm	70 kV/in	Insulating Strength

Descriptive Properties	Value	Comments
Refractoriness (°C)	>2030	

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