

China-Yixing Longly Refractories 99 Alumina Ceramic

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

LONGLY selects high quality ceramic fine powder and micropowder as materials, adopts modern advanced molding technology to produce a multitude of ceramic tubes, rods, beads, balls, columns, plates, films and other forms. These ceramic products sintered in high temperature has a large elastic modulus, high mechanical strength, high oxidation resistance at elevated temperatures, excellent thermal conductivity, good electrical insulation, high electric strength, low dielectric loss, stability of electric properties with temperature and frequency variation, high wear-resistance, good corrosion resistance, superior waterproof under temperature mutation and surface machinability. Many of alumina's extinguished properties could be strengthened through variation in manufacturing methods and in chemistry. Applications: Widely used in electronics, electrical appliances, machinery, petroleum, chemical, medical, textile, automobile, metallurgy and aerospace industries and so on. 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.php

Physical Properties	Metric	English	Comments
Bulk Density	3.80 - 3.95 g/cc	0.137 - 0.143 lb/in ³	
Water Absorption	<= 0.0060 %	<= 0.0060 %	

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	7.60 - 8.50 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	4.22 - 4.72 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 25.0 - 800 $^\circ\text{C}$	@Temperature 77.0 - 1470 $^\circ\text{F}$	
Thermal Conductivity	35.0 W/m-K	243 BTU-in/hr-ft ² - $^\circ\text{F}$	
Maximum Service Temperature, Air	>= 1600 $^\circ\text{C}$	>= 2910 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	98 - 99.5 %	98 - 99.5 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	

Electrical Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Dielectric Strength	15.0 - 16.0 kV/mm	381 - 406 kV/in	DC Breakdown Strength
	18.0 kV/mm	457 kV/in	Insulating Strength

Descriptive Properties	Value	Comments
Refractoriness (°C)	>2030	

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