

## China-Yixing Longly Refractories 75 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-75-Alumina-Ceramic.php](http://www.lookpolymers.com/polymer_China-Yixing-Longly-Refractories-75-Alumina-Ceramic.php)

Physical Properties	Metric	English	Comments
Bulk Density	2.10 - 2.30 g/cc	0.0759 - 0.0831 lb/in <sup>3</sup>	
Water Absorption	<= 1.0 %	<= 1.0 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0	8.0	
Flexural Strength	>= 280 MPa	>= 40600 psi	cold bending
Compressive Strength	>= 260 MPa	>= 37700 psi	Ambient

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 - 5.50 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	2.78 - 3.06 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	
	@Temperature 25.0 - 800 $^\circ\text{C}$	@Temperature 77.0 - 1470 $^\circ\text{F}$	
Thermal Conductivity	17.0 W/m-K	118 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	
Maximum Service Temperature, Air	>= 1300 $^\circ\text{C}$	>= 2370 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	70 - 77 %	70 - 77 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 - 1.00e+13 ohm-cm	1.00e+12 - 1.00e+13 ohm-cm	

Electrical Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	Comments
Dielectric Strength	12.0 kV/mm	305 kV/in	Insulating Strength
	25.0 - 30.0 kV/mm	635 - 762 kV/in	DC Breakdown Strength

Descriptive Properties	Value	Comments
Refractoriness (°C)	>1700	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China