

## China-Yixing Longly Refractories 95 Alumina Ceramic Seals

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

LONGLY's alumina ceramic seals (alumina accounts for 95-99%) can be finished by mirror-polishing process. Because of high mechanical strength, strong chemical corrosion resistance, good air tightness, superior waterproof under temperature mutation, they are used as the mechanical seal and dynamic seal of various household water pump, agricultural pump and other chemical pump, and can meet the requirements of sliding and sealing in actual operating environment. Applications: Widely used as mechanical seal parts in the industries of metallurgy, machinery, chemical, medical, corrosion-resistant pump, automobile, aerodynamic components. 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-95-Alumina-Ceramic-Seals.php](http://www.lookpolymers.com/polymer_China-Yixing-Longly-Refractories-95-Alumina-Ceramic-Seals.php)

Physical Properties	Metric	English	Comments
Bulk Density	3.55 - 3.65 g/cc	0.128 - 0.132 lb/in <sup>3</sup>	
Water Absorption	<= 0.070 %	<= 0.070 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	9.0	9.0	
Flexural Strength	>= 520 MPa	>= 75400 psi	cold bending
Compressive Strength	>= 500 MPa	>= 72500 psi	Ambient

Thermal Properties	Metric	English	Comments
CTE, linear	6.50 - 7.80 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	3.61 - 4.33 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 800 $^\circ\text{C}$	@Temperature 77.0 - 1470 $^\circ\text{F}$	
Thermal Conductivity	22.0 W/m-K	153 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	
Maximum Service Temperature, Air	>= 1500 $^\circ\text{C}$	>= 2730 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al2O3	92 - 96.5 %	92 - 96.5 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm	381 kV/in	Insulating Strength
	17.6 - 20.0 kV/mm	447 - 508 kV/in	DC Breakdown Strength

Descriptive Properties	Value	Comments
Refractoriness (°C)	>2000	

**Contact Songhan Plastic Technology Co.,Ltd.**

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