

China-Yixing Longly Refractories 99 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-99-Alumina-Ceramic-Seals.php

Physical Properties	Metric	English	Comments
Bulk Density	3.80 - 3.90 g/cc	0.137 - 0.141 lb/in ³	
Water Absorption	<= 0.0050 %	<= 0.0050 %	

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 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.22 - 4.72 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 800 $^\circ\text{C}$	@Temperature 77.0 - 1470 $^\circ\text{F}$	
Thermal Conductivity	31.0 W/m-K	215 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
Al2O3	98.2 - 99.5 %	98.2 - 99.5 %	

Electrical Properties	Metric	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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