

Zircar Zirconia Buster M-35 Alumina Board, Disc, and Cylinder Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide

Material Notes:

Zircar alumina insulation Type Buster is a rigid, fibrous ceramic material produced by vacuum forming alumina fibers with either a high purity alumina binder in BusterA-30 for use at 1600C or with silica binders in BusterM-35 that form a more thermal shock resistant mullite bond for use at 1700C. Both types of Buster boards are pre-fired for organic-free use. Their fine grain quality enables precision machining. All these features make Buster an ideal insulation material for hot face insulation in both industrial furnaces and thermal process systems. Buster is available in boards, cylinders and custom machined parts. Features: 1600°C & 1700°C Rated Versions Alumina or Mullite Bonded High Strength Low Thermal Conductivity 100% Fibers & Binder - No Fillers Excellent Machinability Non-RCF Composition Information provided by Zircar Zirconia.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Zirconia-Buster-M-35-Alumina-Board-Disc-and-Cylinder-Insulation.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.5607 g/cc	0.5607 g/cc	
Porosity	83 %	83 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	2.41 MPa	350 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu\text{m}/\text{m}\cdot\text{C}$	2.78 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.05 J/g-°C	0.250 BTU/lb-°F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
	@Temperature 1400 °C	@Temperature 2550 °F	
Maximum Service Temperature, Air	1725 °C	3137 °F	
Shrinkage	<= 3.00 %	<= 3.00 %	
	@Temperature 1600 °C, Time 3600 sec	@Temperature 2910 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	85 %	85 %	

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