

## Zircar Zirconia M-45 Alumina Boards, Discs & Cylinders Insulation

Category : Ceramic , Machinable Ceramic , Oxide , Aluminum Oxide

**Material Notes:**

Zircar alumina insulation Type M Buster is a rigid, fibrous ceramic material produced by vacuum forming alumina fibers with silica binders in BusterM that form a thermal shock resistant mullite bond. Standard board densities are 15, 30, 35 and 45 pounds per cubic foot. Buster is available in boards, cylinders and custom machined parts. All Buster boards are pre-fired for organic-free use. Their fine grain quality and uniform binder distribution enables precision machining. All these features make Buster an ideal insulation material for hot face insulation, setters. Information provided by Zircar Zirconia.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zircar-Zirconia-M-45-Alumina-Boards-Discs-Cylinders-Insulation.php](http://www.lookpolymers.com/polymer_Zircar-Zirconia-M-45-Alumina-Boards-Discs-Cylinders-Insulation.php)

Physical Properties	Metric	English	Comments
Density	0.721 g/cc	0.0260 lb/in <sup>3</sup>	
Porosity	70 %	70 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.96 MPa	1300 psi	
Compressive Yield Strength	4.14 MPa	600 psi	2% compression

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	0.251 BTU/lb-°F	
Melting Point	1870 °C	3400 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	2.00 %	2.00 %	
	@Temperature 1700 °C, Time 3600 sec	@Temperature 3090 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	85 %	85 %	

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