

Zircar Ceramics ALBF-1 Alumina Bulk Fiber

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Type ALBF-1 Alumina Bulk Fiber is a specially cleaned alumina fiber with relatively short fiber lengths. It is suitable for use in vacuum forming of high density rigid boards & shapes, in the reinforcement of cast ceramics and finds use to 1800°C (3272°F). Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-ALBF-1-Alumina-Bulk-Fiber.php

Physical Properties	Metric	English	Comments
Bulk Density	0.100 g/cc	0.00361 lb/in ³	Shipping Density
	0.100 - 0.190 g/cc	0.00361 - 0.00686 lb/in ³	Packed Density
Density	3.40 g/cc	0.123 lb/in ³	
Filament Diameter	3.0 µm	3.0 µm	Mean Fiber Diameter

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.05 J/g-°C	0.250 BTU/lb-°F	
Thermal Conductivity	0.0350 W/m-K	0.243 BTU-in/hr-ft ² -°F	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.450 W/m-K	3.12 BTU-in/hr-ft ² -°F	
	@Temperature 1600 °C	@Temperature 2910 °F	
Melting Point	2038 °C	3700 °F	
Maximum Service Temperature, Air	1700 °C	3090 °F	
Shrinkage	2.00 %	2.00 %	
	@Temperature 1538 °C, Time 3600 sec	@Temperature 2800 °F, Time 1.00 hour	
	4.00 %	4.00 %	
	@Temperature 1650 °C, Time 3600 sec	@Temperature 3000 °F, Time 1.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	97 %	97 %	
SiO2	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
Alpha Alumina	Min 50 wt. %	
Color	White	
Fiber Length	3.2 mm	Mean
Shot content	Nil	

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