

Zircar Ceramics AB Alumina Blanket

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Two varieties of quilted alumina fiber blanket that have good handleability and offer very low thermal conductivity. These resilient blankets are easily cut and applied to numerous application with temperatures as high as 1600° C (2912° F). Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-AB-Alumina-Blanket.php

Physical Properties	Metric	English	Comments
Density	0.100 g/cc	0.00361 lb/in ³	
Filament Diameter	2.0 - 4.0 µm	2.0 - 4.0 µm	

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 0.0196 MPa	>= 2.84 psi	Perpendicular to Thickness
Resilience	>= 5.0	>= 5.0	%

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² -°F	parallel to thickness; ASTM C177-76
	@Temperature 315 °C	@Temperature 599 °F	
	0.0900 W/m-K	0.625 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 540 °C	@Temperature 1000 °F	
	0.130 W/m-K	0.902 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 760 °C	@Temperature 1400 °F	
	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	parallel to thickness; ASTM C177-76
	@Temperature 980 °C	@Temperature 1800 °F	
	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 1200 °C	@Temperature 2190 °F	
	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	Parallel to Thickness; ASTM C177-76
	@Temperature 1425 °C	@Temperature 2597 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	
Shrinkage	<= 1.0 %	<= 1.0 %	Width and Length
	@Temperature 1500 °C,	@Temperature 2730 °F,	

Thermal Properties	Time 86400 sec Metric	Time 24.0 hour English	Comments
	<= 3.0 %	<= 3.0 %	Thickness
	@Temperature 1500 °C, Time 86400 sec	@Temperature 2730 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	95 %	95 %	
Fe2O3	<= 0.20 %	<= 0.20 %	
Loss on Ignition(%)	<= 0.30 %	<= 0.30 %	
SiO2	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Al2O3 + SiO2	> 99.7%	
Alpha Al2O3	30 to 50%	
Color	White	
Compressibility	> 5%	
Mullite	5 to 16%	
Shot content	0.04 %	

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