

Zircar Ceramics Z-MAG/2300 Soluble Fiber Insulation

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

ZIRCAR NON-RCF Insulation Type Z-MAG/2300 is a rigid combination of soluble NON-RCF silica magnesia glass fibers and inorganic binder. It is suitable for use as a substitute for insulation containing refractory ceramic fiber materials in applications with temperatures to 1260°C (2300°F). Information provided by Zircar Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Ceramics-Z-MAG2300-Soluble-Fiber-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.240 g/cc	0.00867 lb/in ³	
Filament Diameter	4.6 µm	4.6 µm	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000586 GPa	0.0850 ksi	Parallel to Thickness
Compressive Yield Strength	0.0138 MPa	2.00 psi	at 1% Comp., RT, Parallel to Thickness
	0.0172 MPa	2.50 psi	at 2% Comp., RT, Parallel to Thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	parallel to thickness
	@Temperature 400 °C	@Temperature 752 °F	
	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	parallel to thickness
	@Temperature 1100 °C	@Temperature 2010 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	0.300 %	0.300 %	Length & Width
	@Temperature 870 °C, Time 86400 sec	@Temperature 1600 °F, Time 24.0 hour	
	0.950 %	0.950 %	Thickness
	@Temperature 870 °C, Time 86400 sec	@Temperature 1600 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
CaO	3.75 %	3.75 %	
MgO	23 %	23 %	

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