Zircar Ceramics Uniform A2 Alumina-Silica Insulation

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

ZIRCAR Alumina-Silica Insulation Type "UNIFORM A" is a family of refractory ceramic fiber based insulations with exceptional machineability and strength. They are made of specially prepared alumina-silica based refractory ceramic fibers with inorganic silica binder which is uniformly distributed to create an evenly bonded material.UNIFORM A materials contain no organic binders and produce no smoke or odor when heated. They exhibit excellent resistance to chemical attack at elevated temperatures making them useful in many varied high temperature applications. Features:Low thermal conductivityExcellent thermal shock resistanceThermal stability in applications to 1260°C.Typical Applications:Primary thermal insulation in low mass furnaces and thermal process systems operating to 1260°C (2300°F).Backup thermal insulation in furnaces and thermal process systems operating to high temperatures.Reflector tiles in infrared paper drying equipment.Launders, distribution boxes, pouring spouts, hot tops and others involving molten metal contact.Furnace and kiln flue and chimney linings.Combustion chamber liners, baffles and muffles.High temperature setters, supports and process fixtures.Electrical insulation in high temperature systems operating to 1260°C (2300°F).Thermal insulation in hot appliances.Information provided by Zircar Ceramics.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zircar-Ceramics-Uniform-A2-Alumina-Silica-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.290 g/cc	0.0105 lb/in³	
Loss On Ignition	2.4 % @Temperature 600 °C, Time 3600 sec	2.4 % @Temperature 1110 °F, Time 1.00 hour	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00103 GPa	0.149 ksi	Parallel to Thickness
Compressive Yield Strength	0.370 MPa @Strain 10.0 %	53.7 psi @Strain 10.0 %	Parallel to Thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.100 W/m-K @Temperature 400 °C	0.694 BTU-in/hr-ft²-°F @Temperature 752 °F	ASTM C177-76
	0.170 W/m-K @Temperature 800 °C	1.18 BTU-in/hr-ft²-°F @Temperature 1470 °F	ASTM C177-76
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	2.8 %	2.8 %	Perpendicular to thickness

Thermal Properties	Metric	English	Comments
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	
	4.2 % @Temperature 1000 °C, Time 86400 sec	4.2 % @Temperature 1830 °F, Time 24.0 hour	Parallel to thickness
	6.0 % @Temperature 1260 °C, Time 86400 sec	6.0 % @Temperature 2300 °F, Time 24.0 hour	Perpendicular to thickness
	12.2 % @Temperature 1260 °C, Time 86400 sec	12.2 % @Temperature 2300 °F, Time 24.0 hour	Parallel to thickness

Component Elements Properties	Metric	English	Comments
Al2O3	32.7 %	32.7 %	
SiO2	67.2 %	67.2 %	

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