

## Pyrotek SF-50 Foamed Fused Silica Insulation Board

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

SF-50 is characterized by its uniform open cell structure which allows it to be machined to close tolerances. It can be drilled, sawed or modified with conventional tools. For quick construction of structures, SF-50 is easily joined together with Pyrotek's FSC-2000 fused silica cement. SF-50 has excellent volume stability which allows for its use in severe cyclic conditions. Additionally, the absence of any flux or other impurities allows for its use in chemically critical applications. Applications Back-up thermal insulation Furnace door, roof and siding Wall lining Vessel liners Aluminum trough liners Reflectors for quartz lamps and infra-red heaters Heat treating and dies Tooling fixtures Incinerators Brazing fixtures Gas take-up liners Thermal barriers Nuclear applications Advantages Exceptional thermal insulation properties Exceptional resistance to thermal shock Volume stability over a wide temperature range Excellent dielectric strength Ease of shaping provides freedom in engineering design and ease of construction Information provided by Pyrotek.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pyrotek-SF-50-Foamed-Fused-Silica-Insulation-Board.php](http://www.lookpolymers.com/polymer_Pyrotek-SF-50-Foamed-Fused-Silica-Insulation-Board.php)

Physical Properties	Metric	English	Comments
Density	0.737 - 0.865 g/cc	0.0266 - 0.0313 lb/in <sup>3</sup>	
Water Absorption	46 - 54 %	46 - 54 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00340 - 0.00480 GPa	0.493 - 0.696 ksi	
Compressive Strength	6.90 - 12.1 MPa	1000 - 1750 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.200 W/m-K	1.39 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.250 W/m-K	1.74 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 815 °C	@Temperature 1500 °F	
	0.370 W/m-K	2.57 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 1095 °C	@Temperature 2003 °F	
Maximum Service Temperature, Air	1095 °C	2003 °F	Cyclic
	1650 °C	3000 °F	Continuous
	0.000 %	0.000 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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