

## Pyrotek S-1100 Compressible Insulation Board

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

The Pyrotek S-1100 board is a low density calcium silicate product typically used for back-up insulation in refractory constructions. Applications Reduction cell insulation Trough covers Back-up insulation Advantages Exceptional heat resistance Low thermal conductivity High mechanical strength Not damaged by water Excellent creep resistance Dimensional stability Information provided by Pyrotek.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pyrotek-S-1100-Compressible-Insulation-Board.php](http://www.lookpolymers.com/polymer_Pyrotek-S-1100-Compressible-Insulation-Board.php)

Physical Properties	Metric	English	Comments
Density	0.250 g/cc	0.00903 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Flexural Strength	1.40 MPa	203 psi	
Compressive Strength	2.50 MPa	363 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0440 W/m-K	0.305 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	0.0810 W/m-K	0.562 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	0.130 W/m-K	0.902 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	1100.5 °C	2012.9 °F	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	0.30 %	0.30 %	
CaO	44.9 %	44.9 %	
Fe <sub>2</sub> O <sub>3</sub>	0.30 %	0.30 %	
K <sub>2</sub> O	0.10 %	0.10 %	
MgO	0.60 %	0.60 %	
Na <sub>2</sub> O	0.10 %	0.10 %	

Component Elements Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Moisture Content	5.5 %	5.5 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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