

Skamol Group SKAMOLEX V-1100 (700) Panel Design

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

SKAMOLEX panel designs have the following characteristics: Max. service temperature: Up to 1150°C (2102°F) Hot-face applications or back-up insulation A large variety of specialized and versatile highly insulating refractory panels and shapes made of vermiculite Resistant to high temperatures, withstand direct flame impingement Good electrical resistivity Customized designs: Special shapes or panels, surface pattern and two-dimensional effects Available in various combinations of bulk density, insulation properties and compressive strength Have a myriad of uses and are ideally suited for lining hearth and heating appliances such as fireplaces, gasfires and stoves as well as night storage heaters, domestic boilers, and cooking appliances Also used in high temperature industries where special designs are required, possibly in combination with calcium silicate slabs. Information provided by Skamol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Skamol-Group-SKAMOLEX-V-1100-700-Panel-Design.php

Physical Properties	Metric	English	Comments
Bulk Density	0.702 g/cc	0.0253 lb/in ³	Dry
Loss On Ignition	6.00 % @Temperature 1025 °C	6.00 % @Temperature 1877 °F	
Porosity	74 %	74 %	Total

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00200 GPa	0.290 ksi	EN 993-6: 1995
Compressive Strength	4.50 MPa	653 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C @Temperature 20.0 - 750 °C	6.11 µin/in-°F @Temperature 68.0 - 1380 °F	BS 902: section 5.3: 1990
Specific Heat Capacity	0.940 J/g-°C	0.225 BTU/lb-°F	
Thermal Conductivity	0.180 W/m-K @Temperature 200 °C	1.25 BTU-in/hr-ft ² - °F @Temperature 392 °F	Mean temp.; ASTM C-182
	0.190 W/m-K @Temperature 400 °C	1.32 BTU-in/hr-ft ² - °F @Temperature 752 °F	ASTM C-182
	0.260 W/m-K	1.80 BTU-in/hr-ft ² - °F	

Thermal Properties	Metric @ Temperature 600 Â°C	English @ Temperature 1110 Â°F	ASTM A C-182 Comments
Maximum Service Temperature, Air	1100 Â°C	2010 Â°F	
Shrinkage	1.10 % @Temperature 1000 Â°C, Time 43200 sec	1.10 % @Temperature 1830 Â°F, Time 12.0 hour	Linear Reheat Shrinkage; EN 1094-6: 1999

Component Elements Properties	Metric	English	Comments
Al2O3	7.0 %	7.0 %	
CaO	5.0 %	5.0 %	
Fe2O3	6.5 %	6.5 %	
K2O	10 %	10 %	
MgO	20 %	20 %	
Na2O	0.10 %	0.10 %	
SiO2	47 %	47 %	
TiO2	1.0 %	1.0 %	

Descriptive Properties	Value	Comments
Color	Light Brown	
Pyrometric Cone Equivalent	1300Â°C	ASTM C24-89, ORTON cones
Resistance to Thermal Shock	Min 10 cycles	EN 993-11: 1998, heating to 950Â°C (1742Â°F)

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