

## Skamol Group V-LITE 475 Vermiculite Insulating Brick

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

V-LITE vermiculite insulating bricks have the following characteristics: Max. service temperature 1100°C (2012°F) Hot-face applications and back-up insulation Good insulation value High mechanical strength High temperature resistance, withstand direct flame impingement Can be used in furnaces with reducing atmospheres due to their resistance to carbon monoxide and hydrocarbon attacks Equally suitable for hot-face applications and back-up insulation of refractory constructions Used for lining in all types of industrial kilns and furnaces, incinerators and combustion plants Information provided by Skamol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Skamol-Group-V-LITE-475-Vermiculite-Insulating-Brick.php](http://www.lookpolymers.com/polymer_Skamol-Group-V-LITE-475-Vermiculite-Insulating-Brick.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.474 g/cc	0.0171 lb/in <sup>3</sup>	Dry
Loss On Ignition	7.00 %	7.00 %	
	@Temperature 1025 °C	@Temperature 1877 °F	
Porosity	81 %	81 %	Total

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00100 GPa	0.145 ksi	EN 993-6: 1995
Compressive Strength	2.50 MPa	363 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C	6.11 µin/in-°F	BS 902: section 5.3: 1990
	@Temperature 20.0 - 750 °C	@Temperature 68.0 - 1380 °F	
Specific Heat Capacity	0.940 J/g-°C	0.225 BTU/lb-°F	
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ft <sup>2</sup> - °F	Mean temp.; ASTM C-182
	@Temperature 200 °C	@Temperature 392 °F	
	0.160 W/m-K	1.11 BTU-in/hr-ft <sup>2</sup> - °F	ASTM C-182
	@Temperature 400 °C	@Temperature 752 °F	
	0.190 W/m-K	1.32 BTU-in/hr-ft <sup>2</sup> - °F	ASTM C-182
	@Temperature 600 °C	@Temperature 1110 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1130Â°C	2050Â°F	
Shrinkage	1.00 % @Temperature 1000 Â°C, Time 43200 sec	1.00 % @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	2.0 %	2.0 %	
Fe2O3	4.0 %	4.0 %	
K2O	11 %	11 %	
MgO	21 %	21 %	
Na2O	0.50 %	0.50 %	
SiO2	47 %	47 %	
TiO2	0.50 %	0.50 %	

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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