

## Skamol Group VIP 12 Vermiculite Insulating Slab

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

SKAMOL V-1100 & VIP-12 vermiculite slabs have the following characteristics: Max. service temperature: Up to 1150°C (2102°F) Hot-face applications or back-up insulation of all refractory constructions Excellent insulating value High mechanical strength Good thermal shock resistance Can be used in furnaces with reducing atmospheres due to their high resistance to carbon monoxide and hydrocarbons Several grades available in various combinations of bulk density, insulation properties and compressive strength A variety of uses in high-temperature kilns and furnaces, combustion plants, boilers as well as in hearth and heating appliances High-density grade VIP-12 has a good resistance to cryolite and fluorides, which makes it particularly suitable for uses within the primary aluminum industry. Information provided by Skamol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Skamol-Group-VIP-12-Vermiculite-Insulating-Slab.php](http://www.lookpolymers.com/polymer_Skamol-Group-VIP-12-Vermiculite-Insulating-Slab.php)

Physical Properties	Metric	English	Comments
Bulk Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	Dry
Loss On Ignition	4.00 % @Temperature 1025 °C	4.00 % @Temperature 1877 °F	
Porosity	55 %	55 %	Total

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00360 GPa	0.522 ksi	EN 993-6: 1995
Compressive Strength	11.0 MPa	1600 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 µm/m-°C @Temperature 20.0 - 750 °C	6.67 µin/in-°F @Temperature 68.0 - 1380 °F	BS 902: section 5.3: 1990
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	
Thermal Conductivity	0.230 W/m-K @Temperature 200 °C	1.60 BTU-in/hr-ft <sup>2</sup> - °F @Temperature 392 °F	Mean temp.; ASTM C-182
	0.260 W/m-K @Temperature 400 °C	1.80 BTU-in/hr-ft <sup>2</sup> - °F @Temperature 752 °F	ASTM C-182
	0.290 W/m-K	2.01 BTU-in/hr-ft <sup>2</sup> - °F	

Thermal Properties	Metric	English	Comments
	@Temperature 600 °C	@Temperature 1110 °F	ASTM C-182
	0.330 W/m-K	2.29 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C-182
	@Temperature 800 °C	@Temperature 1470 °F	
Maximum Service Temperature, Air	1150 °C	2100 °F	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	20 %	20 %	
CaO	1.0 %	1.0 %	
Fe <sub>2</sub> O <sub>3</sub>	3.0 %	3.0 %	
K <sub>2</sub> O	7.0 %	7.0 %	
MgO	10 %	10 %	
Na <sub>2</sub> O	0.10 %	0.10 %	
SiO <sub>2</sub>	51 %	51 %	
TiO <sub>2</sub>	1.0 %	1.0 %	

Descriptive Properties	Value	Comments
Color	Light Brown	
Pyrometric Cone Equivalent	1221°C	ASTM C24-89, ORTON cones
Resistance to Thermal Shock	Min 30 cycles	EN 993-11: 1998, heating to 950°C (1742°F)

## Contact Songhan Plastic Technology Co.,Ltd.

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