

Skamol Group V-1100 475 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-V-1100-475-Vermiculite-Insulating-Slab.php

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

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000800 GPa	0.116 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 @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	0.140 W/m-K @Temperature 200 °C	0.972 BTU-in/hr-ft ² - °F @Temperature 392 °F	Mean temp.; ASTM C-182
	0.160 W/m-K @Temperature 400 °C	1.11 BTU-in/hr-ft ² - °F @Temperature 752 °F	ASTM C-182
	0.190 W/m-K	1.32 BTU-in/hr-ft ² - °F	

Thermal Properties	Metric	English	ASTM C-182 Comments
	@ Temperature 600 Â°C	@ Temperature 1110 Â°F	
Maximum Service Temperature, Air	1100 Â°C	2010 Â°F	
Shrinkage	1.00 %	1.00 %	Linear Reheat Shrinkage; EN 1094-6: 1999
	@Temperature 1000 Â°C, Time 43200 sec	@Temperature 1830 Â°F, Time 12.0 hour	
	1.00 %	1.00 %	Linear Reheat Shrinkage; EN 1094-6: 1999
	@Temperature 1100 Â°C, Time 43200 sec	@Temperature 2010 Â°F, Time 12.0 hour	

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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