Skamol Group V-1100 600 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 1150Â°C (2102Â°F)Hot-face applications or back-up insulation of all refractory constructionsExcellent insulating valueHigh mechanical strengthGood thermal shock resistanceCan be used in furnaces with reducing atmospheres due to their high resistance to carbon monoxide and hydrocarbonsSeveral grades available in various combinations of bulk density, insulation properties and compressive strengthA variety of uses in high-temperature kilns and furnaces, combustion plants, boilers as well as in hearth and heating appliancesHigh-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-1100-600-Vermiculite-Insulating-Slab.php

Physical Properties	Metric	English	Comments
Bulk Density	0.601 g/cc	0.0217 lb/inÂ³	Dry
Loss On Ignition	7.00 % @Temperature 1025 Â°C	7.00 % @Temperature 1877 Â°F	
Porosity	76 %	76 %	Total

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00160 GPa	0.232 ksi	EN 993-6: 1995
Compressive Strength	4.20 MPa	609 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 Âµm/m-Â°C @Temperature 20.0 - 750 Â°C	6.11 Âµin/in-Â°F @Temperature 68.0 - 1380 Â°F	BSÂ 1902: section 5.3: 1990
Specific Heat Capacity	0.940 J/g-Â°C	0.225 BTU/lb-Â°F	
Thermal Conductivity	0.150 W/m-K @Temperature 200 Â°C	1.04 BTU-in/hr-ftÂ²-Â°F @Temperature 392 Â°F	Mean temp.; ASTMÂ C-182
	0.160 W/m-K @Temperature 400 Â°C	1.11 BTU-in/hr-ftÂ²-Â°F @Temperature 752 Â°F	ASTMÂ C-182
	0.190 W/m-K	1.32 BTU-in/hr-ftÂ²-Â°F	

Thermal Properties	Metric	English	Comments
	@Temperature 600 Â°C	@Temperature 1110 Â°F	ASTM C-182
Maximum Service Temperature, Air	1100 Â°C	2010 Â°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
	1.00 % @Temperature 1100 Â°C, Time 43200 sec	1.00 % @Temperature 2010 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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