

Skamol Group SUPER 1100 ET Calcium Silicate Insulating Slab

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

SKAMOL SUPER calcium silicate slabs have the following characteristics: Max. service temperature: Up to 1100°C (2012°F) Back-up insulation only Extremely lightweight Very low thermal conductivity Excellent mechanical strength Can be used in furnaces with reducing atmosphere due to their high resistance to carbon monoxide and hydrocarbons Designed for the application as back-up insulation of all refractory constructions The ideal choice for efficient insulation of kilns, furnaces, ovens, stoves, boilers, soaking pits, regenerators, mains and other combustion equipment The combination of low weight, high service temperature and good integrity makes the calcium silicate slabs highly applicable as fire protection in several applications. Information provided by Skamol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Skamol-Group-SUPER-1100-ET-Calcium-Silicate-Insulating-Slab.php

Physical Properties	Metric	English	Comments
Bulk Density	0.288 g/cc	0.0104 lb/in ³	Dry
Loss On Ignition	7.00 % @Temperature 1025 °C	7.00 % @Temperature 1877 °F	
Porosity	89 %	89 %	Total
Permeability	1.0	1.0	nPm, Permeability to Air; BS EN 993-4: 1995

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00170 GPa	0.247 ksi	EN 993-6: 1995
Compressive Strength	2.80 MPa	406 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	5.50 Åµm/m-Å°C @Temperature 20.0 - 750 Å°C	3.06 Åµin/in-Å°F @Temperature 68.0 - 1380 Å°F	BS Å 1902: section 5.3: 1990
Specific Heat Capacity	0.840 J/g-Å°C	0.201 BTU/lb-Å°F	
Thermal Conductivity	0.0700 W/m-K @Temperature 200 Å°C	0.486 BTU-in/hr-ftÅ²- Å°F @Temperature 392 Å°F	Mean temp.; ASTM Å C-182
	0.0900 W/m-K @Temperature 400 Å°C	0.625 BTU-in/hr-ftÅ²- Å°F @Temperature 752 Å°F	ASTM Å C-182

Thermal Properties	Metric W/m-K	English 0.694 BTU-in/hr-ft ² - °F	Comments
	@Temperature 600 °C	@Temperature 1110 °F	ASTM C-182
Maximum Service Temperature, Air	1100 °C	2010 °F	
Shrinkage	1.50 % @Time 43200 sec	1.50 % @Time 12.0 hour	Linear Reheat Shrinkage, 12h at 50 °C (122 °F) below max. service temp.; EN 1094-6: 1999

Component Elements Properties	Metric	English	Comments
Al2O3	0.30 %	0.30 %	
CaO	45 %	45 %	
Fe2O3	0.30 %	0.30 %	
K2O	0.10 %	0.10 %	
MgO	0.60 %	0.60 %	
Na2O	0.10 %	0.10 %	
SiO2	46 %	46 %	

Descriptive Properties	Value	Comments
Color	Grey	
Creep in Compression	0.4 %	BS EN 993-9: 1997, 50h at 900 °C (1652 °F), load 0.1 MPa (14.5 psi)
Pyrometric Cone Equivalent	1345 °C	ASTM C24-89, ORTON cones

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