

## Skamol Group Moler SM-65 Insulating Block

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

SKAMOL Moler insulating bricks & blocks have the following characteristics: Max. service temperature: Up to 1000°C (1832°F) Back-up insulation Excellent insulating properties High mechanical strength Light weight Good thermal shock resistance Increasing strength at rising temperatures High content of amorphous silica accounting for an increased viscosity being induced into attacking slags or melts Non-wetting to molten aluminum and other metals A wide range of bricks and blocks in various combinations of bulk density, thermal conductivity and crushing strength Primarily used for back-up insulation, typically in industrial furnaces behind a refractory lining. Information provided by Skamol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Skamol-Group-Moler-SM-65-Insulating-Block.php](http://www.lookpolymers.com/polymer_Skamol-Group-Moler-SM-65-Insulating-Block.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.657 g/cc	0.0237 lb/in <sup>3</sup>	Dry
Loss On Ignition	1.00 % @Temperature 1025 °C	1.00 % @Temperature 1877 °F	
Porosity	72 %	72 %	Total
Permeability	6.0	6.0	nPm, Permeability to Air; BS EN 993-4: 1995

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00100 GPa	0.145 ksi	EN 993-6: 1995
Compressive Strength	3.50 MPa	508 psi	EN 1094-5: 1995

Thermal Properties	Metric	English	Comments
CTE, linear	3.00 Åµm/m-Å°C @Temperature 20.0 - 750 Å°C	1.67 Åµin/in-Å°F @Temperature 68.0 - 1380 Å°F	BS Å 1902: section 5.3: 1990
Specific Heat Capacity	0.800 J/g-Å°C	0.191 BTU/lb-Å°F	
Thermal Conductivity	0.125 W/m-K @Temperature 200 Å°C	0.868 BTU-in/hr-ftÅ²- Å°F @Temperature 392 Å°F	Mean temp.; ASTM Å C-182
	0.150 W/m-K @Temperature 400 Å°C	1.04 BTU-in/hr-ftÅ²- Å°F @Temperature 752 Å°F	ASTM Å C-182

Thermal Properties	Metric W/m-K	English 1.18 BTU-in/hr-ft <sup>2</sup> -°F	Comments
	@Temperature 600 °C	@Temperature 1110 °F	ASTM C-182
Maximum Service Temperature, Air	950 °C	1740 °F	
Shrinkage	1.00 % @Temperature 1000 °C, Time 43200 sec	1.00 % @Temperature 1830 °F, Time 12.0 hour	Linear Reheat Shrinkage; EN 1094-6: 1999

Component Elements Properties	Metric	English	Comments
Al2O3	9.0 %	9.0 %	
CaO	0.80 %	0.80 %	
Fe2O3	7.0 %	7.0 %	
K2O	1.6 %	1.6 %	
MgO	1.3 %	1.3 %	
Na2O	0.40 %	0.40 %	
SiO2	77 %	77 %	
SO3	1.0 %	1.0 %	
TiO2	0.70 %	0.70 %	

Descriptive Properties	Value	Comments
Color	Red	
Creep in Compression	1.5%	BS EN 993-9: 1997, after fluoride gas exposure, 50h at 800°C (1472°F), load 0.1 MPa (14.5 psi)
Pyrometric Cone Equivalent	1350°C	ASTM C24-89, ORTON cones
Resistance to Thermal Shock	Min 30 cycles	EN 993-11: 1998, heating to 950°C (1742°F)

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