

## Skamol Group VERMICAST 14-100 Insulating Castable

Category : Ceramic , Oxide

### Material Notes:

SKAMOL insulating castables have the following characteristics: Max. service temperature: Up to 1100Â°C (2102Â°F) Back-up insulation or hot-face uses For casting and gunning Products are based on fired Moler aggregates, refractory materials, or exfoliated vermiculite Effective insulation Quick and economical installation Used as monolithic heat insulation in a wide range of industrial kilns and furnaces, boilers, chimneys, and flues The Vermicast grades are favored as infill in aluminum reduction cell cathodes due to their non-wetting capacity to molten metal and good bath resistance. Information provided by Skamol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Skamol-Group-VERMICAST-14-100-Insulating-Castable.php](http://www.lookpolymers.com/polymer_Skamol-Group-VERMICAST-14-100-Insulating-Castable.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.577 g/cc	0.0208 lb/inÂ³	As Supplied
	0.993 g/cc	0.0359 lb/inÂ³	Defined by casting method, +/- 50kg (110 lbs)
Loss On Ignition	20.0 %	20.0 %	
	@Temperature 1025 Â°C	@Temperature 1877 Â°F	
Porosity	63 %	63 %	

Mechanical Properties	Metric	English	Comments
Compressive Strength	4.00 MPa	580 psi	Dried at 110Â°C (230Â°F)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²-Â°F	Mean temp.; ASTMÂ C-201 supplemented by ASTM C-182
	@Temperature 200 Â°C	@Temperature 392 Â°F	
	0.260 W/m-K	1.80 BTU-in/hr-ftÂ²-Â°F	ASTMÂ C-201 supplemented by ASTM C-182
	@Temperature 400 Â°C	@Temperature 752 Â°F	
	0.270 W/m-K	1.87 BTU-in/hr-ftÂ²-Â°F	ASTMÂ C-201 supplemented by ASTM C-182
	@Temperature 600 Â°C	@Temperature 1110 Â°F	
Maximum Service Temperature, Air	1100 Â°C	2010 Â°F	
Shrinkage	1.50 %	1.50 %	Linear Reheat Shrinkage, 12h at 100Â°C (180Â°F) below max. service temp.
	@Time 43200 sec	@Time 12.0 hour	

Thermal Properties	Metric	English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3 + TiO2	27 %	27 %	
CaO	25 %	25 %	
Fe2O3	11 %	11 %	
K2O+Na2O	1.0 %	1.0 %	
MgO	5.0 %	5.0 %	
SiO2	11 %	11 %	

Descriptive Properties	Value	Comments
Pyrometric Cone Equivalent	1340Â°C	ASTM C24-89, ORTON cones

## Contact Songhan Plastic Technology Co.,Ltd.

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