

Skamol Group SKAMOCAST 14-105 Insulating Castable

Category : Ceramic , Oxide , Silicon 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-SKAMOCAST-14-105-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	0.705 g/cc	0.0255 lb/in ³	As Supplied
	1.06 g/cc	0.0382 lb/in ³	Defined by casting method, +/- 50kg (110 lbs)
Loss On Ignition	11.0 %	11.0 %	
	@Temperature 1025 Â°C	@Temperature 1877 Â°F	
Porosity	58 %	58 %	

Mechanical Properties	Metric	English	Comments
Compressive Strength	8.00 MPa	1160 psi	Dried at 110Â°C (230Â°F)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² - Â°F	Mean temp.; ASTM C-201 supplemented by ASTM C-182
	@Temperature 200 Â°C	@Temperature 392 Â°F	
	0.250 W/m-K	1.74 BTU-in/hr-ft ² - Â°F	ASTM 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-ft ² - Â°F	ASTM C-201 supplemented by ASTM C-182
	@Temperature 600 Â°C	@Temperature 1110 Â°F	
Maximum Service Temperature, Air	850 Â°C	1560 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	19 %	19 %	
CaO	13 %	13 %	
Fe2O3	9.0 %	9.0 %	
K2O+Na2O	1.0 %	1.0 %	
MgO	1.0 %	1.0 %	
SiO2	45 %	45 %	

Descriptive Properties	Value	Comments
Pyrometric Cone Equivalent	1240Å°C	ASTM C24-89, ORTON cones

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