

Skamol Group SKAMOCAST 112-80 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-112-80-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	0.545 g/cc	0.0197 lb/in ³	As Supplied
	0.801 g/cc	0.0289 lb/in ³	Defined by casting method, +/- 50kg (110 lbs)
Loss On Ignition	6.00 %	6.00 %	
	@Temperature 1025 Â°C	@Temperature 1877 Â°F	
Porosity	68 %	68 %	

Mechanical Properties	Metric	English	Comments
Compressive Strength	2.90 MPa	421 psi	Dried at 110Â°C (230Â°F)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.200 W/m-K	1.39 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	
	0.220 W/m-K	1.53 BTU-in/hr-ft ² - Â°F	ASTM C-201 supplemented by ASTM C-182
	@Temperature 400 Â°C	@Temperature 752 Â°F	
	0.240 W/m-K	1.67 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	900 Â°C	1650 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	14.5 %	14.5 %	
CaO	7.0 %	7.0 %	
Fe2O3	8.0 %	8.0 %	
K2O+Na2O	1.0 %	1.0 %	
MgO	1.0 %	1.0 %	
SiO2	62 %	62 %	

Descriptive Properties	Value	Comments
Pyrometric Cone Equivalent	1200Å°C	ASTM C24-89, ORTON cones

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