

Aremco Ceramacast™ 673-N High Temperature Potting & Casting Material Silicon Carbide

Category : Ceramic , Carbide , Potting/Casting Ceramic

Material Notes:

Single-part castable ceramic exhibiting high strength and thermal conductivity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-673-N-High-Temperature-Potting-Casting-Material-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Bulk Density	1.73 g/cc	0.0625 lb/in ³	Powder
Density	1.80 g/cc	0.0650 lb/in ³	
Porosity	<= 4.0 %	<= 4.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	12000 cP	12000 cP	mix

Mechanical Properties	Metric	English	Comments
Compressive Strength	34.5 MPa	5000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.22 µm/m-°C	2.90 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1370 °C	2500 °F	
Shrinkage	<= 0.300 %	<= 0.300 %	
	@Temperature 538 °C	@Temperature 1000 °F	

Processing Properties	Metric	English	Comments
Dry Time	>= 8 hour	>= 8 hour	Air dry
Cure Time	300 - 420 min	5.00 - 7.00 hour	2-4 hrs at 200°F; 3 hrs at 250°F
Pot Life	60.0 - 120 min	60.0 - 120 min	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Acid Resistance	Good	attacked by HF

Descriptive Properties	Value	Comments
Color	Gray	
Mix Ratio	100:9-11	
Moisture Resistance	Good	

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