

Aremco Ceramacast™ 575-N High Temperature Potting & Casting Material Alumina

Category : Ceramic , Oxide , Aluminum Oxide , Potting/Casting Ceramic

Material Notes:

Fine grain castable for potting and producing small tools.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-575-N-High-Temperature-Potting-Casting-Material-Alumina.php

Physical Properties	Metric	English	Comments
Bulk Density	1.50 g/cc	0.0541 lb/in ³	Powder
Porosity	<= 2.0 %	<= 2.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	11000 cP	11000 cP	mixed

Mechanical Properties	Metric	English	Comments
Compressive Strength	81.4 MPa	11800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.74 $\mu\text{m}/\text{m}\cdot\text{°C}$	4.30 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	<= 0.300 %	<= 0.300 %	
	@Temperature 538 °C	@Temperature 1000 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	
Dielectric Strength	5.91 kV/mm	150 kV/in	

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
Alkali Resistance	Good	
Color	White	
Mix Ratio	100:13-15	powder:liquid
Moisture Resistance	Good	

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