

Aremco Ceramacast™ 575 Alumina Fine Grain Potting Compound

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

Material Notes:

Hydraulic setting. Fine grain castable for potting and producing small tools. Used in the production of temperature probes, electrical feed-throughs, large heat treating fixtures, induction coils and crucibles. Supplied in powder form and are mixed with water to develop a strong hydraulic bond. Typically air set in 24 hours, then cured at 250 °F for 2-4 hours to provide maximum electrical and mechanical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramacast-575-Alumina-Fine-Grain-Potting-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	1.44 g/cc	0.0520 lb/in ³	Powder
Open Porosity	<= 6.0 %	<= 6.0 %	
pH	3.0 - 4.0	3.0 - 4.0	
Viscosity	16000 cP	16000 cP	Mixed. Ratio 100-to-19-22 powder-liquid

Mechanical Properties	Metric	English	Comments
Compressive Strength	52.0 MPa	7540 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.70 μm/m-°C	4.28 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	17.9 W/m-K	124 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	<= 1.0 %	<= 1.0 %	
	@Temperature 538 °C	@Temperature 1000 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	
Dielectric Strength	5.90 kV/mm	150 kV/in	

Processing Properties	Metric	English	Comments
Pot Life	120 - 180 min	120 - 180 min	
Shelf Life	12 Month	12 Month	

Descriptive Properties	Value	Comments
Acid Resistance	Good	
Alkali Resistance	Good	
Color	White	
Moisture Resistance	Good	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China