

## Aremco Ceramacast™ 576-N High Temperature Potting & Casting Alumina

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

### Material Notes:

Medium grain castable ceramic for large high temperature potting and tooling. Aremco offers a range of ceramic-based materials used for the assembly of high temperature, high power electrical devices as well as high temperature fixtures, molds and tooling.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aremco-Ceramacast-576-N-High-Temperature-Potting-Casting-Alumina.php](http://www.lookpolymers.com/polymer_Aremco-Ceramacast-576-N-High-Temperature-Potting-Casting-Alumina.php)

Physical Properties	Metric	English	Comments
Bulk Density	1.73 g/cc	0.0625 lb/in <sup>3</sup>	Powder
Porosity	<= 2.0 %	<= 2.0 %	
pH	2.0 - 3.0	2.0 - 3.0	
Viscosity	9000 cP	9000 cP	Mixed. Powder:liquid ratio is 100: 12-14

Mechanical Properties	Metric	English	Comments
Compressive Strength	70.3 MPa	10200 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.38 μm/m-°C	4.10 μin/in-°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 - 120 min	60 - 120 min	
Shelf Life	12.0 Month	12.0 Month	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Acid Resistance		Good	attacked by HF
Alkali Resistance		Good	
Color		White	
Moisture Resistance		Good	

## Contact Songhan Plastic Technology Co.,Ltd.

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