

## Aremco Ceramabond™ 516 High Temperature Ceramic Adhesive/Paste, Zirconia Filled

Category : Ceramic , Oxide , Zirconium Oxide

### Material Notes:

Aremco's ceramic adhesives are easy to use, one- and two-component systems which air dry in 1-2 hrs and are ready for use following a 200 to 700 °F cure. These materials are mostly water-based and do not outgas after curing. They are also environmentally safe, non-flammable materials which contain no volatile organic compounds. General Features: Dielectric, Moisture Resistant Bonding: Ceramic to Ceramic, Ceramic to Metal, Metal to Metal Principal Use: Thermocouples

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aremco-Ceramabond-516-High-Temperature-Ceramic-AdhesivePaste-Zirconia-Filled.php](http://www.lookpolymers.com/polymer_Aremco-Ceramabond-516-High-Temperature-Ceramic-AdhesivePaste-Zirconia-Filled.php)

Physical Properties	Metric	English	Comments
Density	2.15 - 2.30 g/cc	0.0777 - 0.0831 lb/in <sup>3</sup>	
Viscosity	40000 - 70000 cP	40000 - 70000 cP	
Storage Temperature	4.44 - 32.2 °C	40.0 - 90.0 °F	

Mechanical Properties	Metric	English	Comments
Impact Test	67.8 J	50.0 ft-lb	Torque Strength; curing at 1000°F

Thermal Properties	Metric	English	Comments
CTE, linear	7.38 µm/m-°C	4.10 µin/in-°F	
Maximum Service Temperature, Air	1760 °C	3200 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	
	@Temperature 538 °C	@Temperature 1000 °F	
Dielectric Strength	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.40 kV/mm	188 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	420 - 600 min	7.00 - 10.0 hour	1-4 hrs Air Set; 2 hrs at 200°F; 2 hrs at 500°F; 2 hrs at 700°F
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 4.44 -	@Temperature 40.0 -	

Processing Properties	32.2 °C Metric	90.0 °F English	Comments
<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>	
Acid Resistance	Good	after curing at 700°F for 2 hours	
Alkali Resistance	Excellent	after curing at 700°F for 2 hours	
Color	Tan		
Moisture Resistance	Good	after curing at 700°F for 2 hours	

## Contact Songhan Plastic Technology Co.,Ltd.

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