

Aremco Ceramabond™ 618-N High Temperature Ceramic Adhesive/Paste, Silica Filled

Category : Ceramic , Oxide , Silicon 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: Low CTE, Good Strength Bonding: Ceramic to Ceramic, Quartz Principal Use: Tubes, Vessels, Sensors

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramabond-618-N-High-Temperature-Ceramic-AdhesivePaste-Silica-Filled.php

Physical Properties	Metric	English	Comments
Density	1.80 - 1.90 g/cc	0.0650 - 0.0686 lb/in ³	
Volatile Organic Compounds (VOC) Content	0.000 g/l	0.000 g/l	
Viscosity	40000 - 60000 cP	40000 - 60000 cP	

Mechanical Properties	Metric	English	Comments
Impact Test	104 J	77.0 ft-lb	Torque Strength; curing at 1000°F

Thermal Properties	Metric	English	Comments
CTE, linear	0.594 µm/m-°C	0.330 µin/in-°F	
Maximum Service Temperature, Air	1650 °C	3000 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	6.14 kV/mm	156 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	50.0 - 90.0 °C	122 - 194 °F	Application Temp
Cure Time	120 min	2.00 hour	Step 1, preceeded by 1-4 hour air set
	@Temperature 93.3 °C	@Temperature 200 °F	
	120 min	2.00 hour	Step 2
	@Temperature 260 °C	@Temperature 500 °F	
	120 min	2.00 hour	Step 3
	@Temperature 371 °C	@Temperature 700 °F	

Processing Properties	Metric	English	Comments
	Good Month	Good Month	
Shelf Life	@Temperature 4.44 - 32.2 °C	@Temperature 40.0 - 90.0 °F	

Descriptive Properties	Value	Comments
Acid Resistance	Good	
Alkali Resistance	Good	
Color	Off-White	
Moisture Resistance	Excellent	
Solvent	Water	
Thinner	618-N-T	

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