

Aremco Ceramabond™ 503 High Temperature Ceramic Adhesive/Paste, Alumina Filled

Category : Ceramic , Oxide , Aluminum 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: High Fired Strength Bonding: Ceramic to Ceramic
Principal Use: Dense Ceramics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Ceramabond-503-High-Temperature-Ceramic-AdhesivePaste-Alumina-Filled.php

Physical Properties	Metric	English	Comments
Density	2.35 - 2.55 g/cc	0.0849 - 0.0921 lb/in ³	
Volatile Organic Compounds (VOC) Content	0.000 g/l	0.000 g/l	
Viscosity	50000 - 90000 cP	50000 - 90000 cP	

Mechanical Properties	Metric	English	Comments
Impact Test	81.3 J	60.0 ft-lb	Torque Strength; curing at 1000°F

Thermal Properties	Metric	English	Comments
CTE, linear	7.20 μm/m-°C	4.00 μin/in-°F	
Maximum Service Temperature, Air	1650 °C	3000 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	6.73 kV/mm	171 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	50.0 - 90.0 °C	122 - 194 °F	Application
Cure Time	120 min	2.00 hour	Step 1, preceeded by <1 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 5.00 Month	English 5.00 Month	Comments
Shelf Life	@Temperature 4.44 - 32.2 °C	@Temperature 40.0 - 90.0 °F	

Descriptive Properties	Value	Comments
Acid Resistance	Excellent	after curing at 700°F for 2 hours
Alkali Resistance	Fair	after curing at 700°F for 2 hours
Color	White	
Moisture Resistance	Good	after curing at 700°F for 2 hours
Solvent	Water	
Thinner	503-T	

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