

Tra-Con Tra-Bond 2122 Metal Repair Aluminum Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Filled/Reinforced Thermoset

Material Notes:

TRA-BOND 2122 is a versatile aluminum metal filled epoxy formulation developed for modern industrial casting, bonding and repair applications where a strong aluminum-like adhesive is required. This two-part 100% reactive epoxy system is easy to use as it bonds readily to aluminum and other non-ferrous and ferrous materials, to wood, ceramics, glass, concrete and to many plastics. It has low shrinkage, and cures fairly rapidly to a hard, tough solid. Fully cured TRA-BOND 2122 is strong and durable, and is further resistant to mild acids and alkalis, water, salts and salt solutions, petroleum solvents, lubricating oils, gasoline, jet fuels, alcohol and many other organic and inorganic compounds. It is a non-magnetic electrical insulator, does not rust, and can be drilled, sawed, cut and machined with regular metal working tools. TYPICAL REPAIR APPLICATIONS: molds, dies, fixtures, plumbing, automotive castings, aircraft, marine, salvage, ships, jigs, tool repair, small part manufacturing. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2122-Metal-Repair-Aluminum-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	60000 cP @Temperature 25.0 °C	60000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Adhesive Bond Strength	9.65 MPa	1400 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	23.4 MPa	3400 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 20.0 °C	27.8 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	135 °C	275 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Shrinkage	0.15 %	0.15 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	3.94 kV/mm	100 kV/in	
Dissipation Factor	0.10 @Frequency 1000 Hz	0.10 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 65.0 °C	4.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	20 min	20 min	

Descriptive Properties	Value	Comments
Color	Aluminum	
Mix Ratio, parts by weight	100/18	Resin/Hardener

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