



# TECHNICAL DATA SHEET



**Noelle Industries, Inc.**  
Adhesives • Coatings • Conductives • Encapsulants

## NOELLE 807-32

### A Two Component Epoxy Potting Compound

#### Description:

Noelle 807-32 System is a two component (A + B) alumina oxide filled, room temperature curing, liquid epoxy potting compound.

#### Advantages and Applications:

Noelle 807-32 features a low viscosity and reasonable working time in a one-pound mass of material. Noelle 807-32 system is designed to meet or exceed the requirements to pass UL94 V-0 after full cure at room temperature. Noelle 807-32 is primarily used for potting or ruggedizing heat sensitive electronic parts. The low viscosity mixture exhibits exceptional wetting and void free pourings during application.

#### Physical Properties:

	<u>Resin</u>	<u>Hardener</u>
	807-32A	807-32B
Color:	Black	Cream
Specific Gravity	1.59	1.59
Combined	1.59	
Pounds per Gallon	13.60	13.67
Mix Ratio		
(By Volume)	1.00	1.00
(By Weight)	100	100

#### Shelf Life: (Sealed containers)

One Year @ 25°C (both A+B). Hand agitation of the Resin component is recommended after long standing to ensure best results.

#### Instructions and Surface Preparation:

Combine the Resin and the Hardener in the ratio listed above. Mix by hand or mechanical mixer until material is uniform in appearance and color (Black). For best results the unit to be potted should be free of grease or contamination before potting

#### Cure Schedules:

Within an 8 hour period after application @ 25°C (77°F) will yield 80% of the systems full potential. An additional 96 hours @ 25°C(77°F) will yield the systems full potential. Post curing or forced air curing for 4 hours at 85°C will yield a full cure and eliminate the additional waiting time at ambient temperature.

	80%	100%	or	100%
Cure Temp:	25°C	25°C		85°C
Cure Time:	8 hrs	104 hrs		4 hrs

**Pot Life** (450 grams) @ 25°C = 1 Hour

#### Cured Properties:

Shore Hardness, measured @ 25°C	>80D
Lap Shear, Tensile Strength Al/Al ASTM D-1002:	>2000 psi.
Compressive Strength:	>1200psi
Flexural Strength:	>7800psi
Coefficient of Linear Thermal Expansion (in/in°C):	80 x 10 <sup>-6</sup>
Operating Temperature Range:	0°C to +100°C
Cured Shrinkage:	0.001 in/in

#### Storage and Handling:

Normal storage and handling is at room temperature. Use standard mixing and housekeeping procedures to minimize the risk of spills and contact with the surrounding materials.

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

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