



# TECHNICAL DATA SHEET

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

## NOELLE 805-19 System

### A Two-Component Silver Filled Low Outgassing Adhesive

#### **Description:**

Noelle 805-19 System is a two-component, high performance, silver filled room temperature curable epoxy adhesive.

#### **Advantages:**

Noelle 805-19 is filled with conductive metals for both electrical and thermal conductivity. Noelle 805-19 meets the requirements of NASA outgassing testing (ASTM E-595) and offers high strength and excellent electrical conductivity.

#### **Shelf Life:** (Sealed containers)

One Year @ 25°C. Hand agitation of the resin component is recommended after long standing to insure best results.

#### **Physical Properties:**

	<b><u>Resin</u></b>	<b><u>Hardener</u></b>
	805-19A	805-19B
Color:	Silver	Clear
Specific Gravity	3.10	1.02
Mix Ratio (By Weight)	100.0	6.0

#### **Instructions:**

Combine the Resin and the Hardener in the ratio listed above. Mix by hand or mechanical mixer until material is uniform in appearance.

#### **Cure Schedules:**

To achieve ultimate properties and meet NASA outgassing, cure the product for a minimum of 3 hours at 80°C. Noelle 805-19 will also cure at room temperature.

Cure Temperature:	25°C	80°C
Cure Time (hours):	24	3

**Pot Life** (20 grams) @ 25°C = 3 hours

#### **Cured Properties:**

Shore D Hardness, measured @ 25°C: >80

Electrical: Volume Resistivity:

@ 7 days @ 25°C(room temp) (Ohms-cm) <5

@ 3 hours @ 80°C (Ohms-cm) <0.002

Thermal conductivity: (W/m-K) 3.0

Tensile Lap Shear (ASTM D-1002)

Cured 3 hrs @ 80°C (psi) 1000

Operating Temperature Range: -60°C to +125°C

**NASA Outgassing (ASTM E-595) cured 3 hours @ 80°C**

TML 0.47%

CVCM 0.01%

WVR (Water Vapor Regain) 0.12%

#### **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 material

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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