



TECHNICAL DATA SHEET

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

NOELLE 808-68-1 System

A Two Component Potting Compound

Description:

Noelle 808-68-1 System is a two component (A + B) high performance room temperature, oxide filled potting compound.

Advantages:

Noelle 808-68-1 has electrical grade insulation properties, unusually high thermal conductivity and low thermal expansion. Noelle 808-68-1 mixed system features a moderate set up time and is extremely solvent and chemical resistant.

Physical Properties:

	<u>Resin</u>	<u>Hardener</u>
	808-68-1A	808-68-1B
Color:	Black	Clear
Specific Gravity	2.11	0.98
Mix Ratio		
(By Weight)	100	11

Shelf Life: (Sealed containers)

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

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:

Overnight or 16 hours @ 25°C (77°F) will yield 80% of the systems full potential. An additional 80 hours @ 25°C (77°F) will yield the systems full potential.

% Full Cure:	80%	100% or	100%
Cure Temperature:	25°C	25°C	80°C
Cure Time (hours):	16	96	4

Pot Life (100 grams) @ 25°C = 90 Minutes

Cured Properties:

Shore Hardness, measured @ 25°C:	85D
Lap Shear, Tensile Strength	
Al/Al ASTM D-1002 (psi):	>2400
Compressive Strength, ASTM D-1002 (psi):	>8400
Flexural Strength, ASTM D-1002 (psi):	>11300
Flexural Modulus1002 (psi):	0.3 x 10 ⁶
Coefficient of Linear Thermal Expansion	
(in/in°C):	65 x 10 ⁻⁶
Thermal Conductivity:	
(BTU)(in) / (hr)(ft ²)(°F)	7.5
Cured Shrinkage:	0.001 in/in

(For maximum properties Cure for 2 hours @ 110°C)

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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