



## 810-44-2

### A Two Component Epoxy Adhesive

#### **Description:**

The **810-44-2** System is a two component (A + B) high performance, thermally conductive, room temperature curing epoxy adhesive and potting compound. This is a higher viscosity version of **810-44**.

#### **Advantages:**

**810-44-2** is specifically formulated to provide a low coefficient of thermal expansion and minimal flow during cure.

#### **Physical Properties:**

	<b>Resin</b>	<b>Hardener</b>
	810-44A	810-44B
Color:	Gray	Gray
Specific Gravity:	2.0	1.7
Mix Ratio		
(By Weight):	100.0	100.0

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

One Year @ 25°C (both A+B). Hand agitation of both components 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:**

16 hours @ 25°C (77°F) will yield 80% of the systems full potential. An additional 24 hours @ 25°C (77°F) will yield the systems full potential).

% Full Cured	80%	100%	100%
Cure Temp:	25°C	25°C or	65°C
Cure Time (Hours):	16	48	2

**Pot Life** (20 grams) @ 25°C = 4 hours

#### **Cured Properties:**

Shore Hardness, measured @ 25°C: 84D  
Thermal Conductivity @ 121°C (Btu ft/ft<sup>2</sup>-hr-°F): 1.46  
(Watt/ meter °K): 2.53

Operating Temperature Range:(°C): 20°C to +125°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 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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