

**EMCAST 752** is a two-component, alumina filled, thermally conductive epoxy suitable for potting most metals, glass and ceramics.

Key Features include:

- ◆ Flowable Viscosity
- ◆ High Thermal Conductivity
- ◆ Excellent Electrical Insulation
- ◆ Easy to Weigh 1:1 Mix Ratio

### Properties Uncured:

Color:	Off White	
Viscosity:	Part A: 100,000 cps Mixed: 40,000 cps	Part B: 25,000 cps
Specific Gravity	Part A: 2.0	Part B: 1.8
Working Life at 20-25°C:	About 3 hours mixed	
Shelf Life:	Two component kits: Double Barrel Syringes: Pre-Mixed and Frozen Syringes:	1 year at 20-25°C, mix well before use 1 year at 0°C or less 3 months at -40°C or less

### Properties Cured:

CTE:	40 ppm/°C
Thermal Conductivity:	~1.5 W/mK
Volume Resistivity:	$6 \times 10^{14}$
Hardness:	75 Rex D
Tg:	90°C
Operating Temperature:	-40-150°C

### Mix Ratio:

1:1 by Weight  
Mix thoroughly. Degas by vacuum if necessary.

### Cure Profile:

EMCAST 752 is cured at room temperature or elevated temperatures.

Time to cure at temperature:

20-25°C	24-36 hours
60°C	3 hours
125°C	1 hour

### Handling and Storage:

EMCAST 752 sold in two component kits may be stored at ambient temperatures. Mix the Part A and the Part B separately before combining. Settling will occur.

Double barrel syringes should be stored frozen to keep the material from settling.

Pre-mixed and Frozen syringes must be stored at -40°C or less.

◆ Wear proper attire, nitrile gloves and safety goggles when handling this material.

### IMPORTANT NOTICE

All data in this bulletin are based on our own research and the research of others. They are believed to be accurate. However, no guarantee of accuracy is made. Product description is sold without warranty except conformity to specification and on condition that the purchasers shall determine suitability for their particular purpose

Good housekeeping rules are always important. Provide ample ventilation in all areas of handling, and use. Avoid prolonged breathing of possible fumes. Minimize skin contact. Use of goggles, rubber gloves, and protective creams is recommended. Always wash exposed areas immediately using warm water and soap followed by rinsing with clear water. If material comes in contact with eyes, flush with clear water for fifteen minutes and consult a physician immediately.

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