



## CC3-100

### Unfilled, Medium Viscosity, General Purpose Potting Resin

CC3-100 exhibits a wide variety of excellent features found only in the highest quality epoxy resins. It is a medium viscosity, unfilled, resilient, transparent epoxy which can be cured at room temperature or with heat.

#### SUGGESTED APPLICATIONS:

Epoxy Glass Lamination:	excellent wetting out properties
Thin Glue-Line Bonding:	no bulky filler to occupy space
Void-Free, See Through Castings:	medium viscosity, air released rapidly

#### ELECTRICAL AND PHYSICAL PROPERTIES:

	<u>H-7 Hardener</u>	<u>Ancamine Z</u>
Specific Gravity @ 25' C	1.1	1.2
Viscosity @ 25' C, cps	500	8,400
Thermal Conductivity: BTU/ft <sup>2</sup> /hr/'F/in	1.4	1.4
Flexural Strength: psi	7,000	10,500
Izod Impact: ft lbs/in of notch	0.5	0.5
Water Absorption: %, 7 days @ 25' C	0.13	0.12
Volume Resistivity @ 25' C, ohm-cm	10 <sup>13</sup>	10 <sup>13</sup>
Dielectric Strength, volts/mil	380	390
Bond Shear Strength: 1 in overlap	2,000	2,300
Service Temperature, 'C continuous	-55 to 150	-70 to 240
Standard Color	Clear	Amber

#### CHOICE OF HARDENERS:

H-1 Hardener:	Rigid, good dimensional stability, fast cure.
H-7 Hardener:	Resilient, excellent mechanical and thermal shock, low viscosity, good air release, fast cure.
Ancamine Z:	Resilient, excellent mechanical and thermal shock, plus high heat distortion, long pot life.
H-10LV Hardener:	Variable hardness, excellent impact properties, long pot life



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HARDENER	PARTS BY WEIGHT PER 100 PARTS OF RESIN		POT LIFE	CURE TIME	CURE TIME	CURE TIME
			100 GRAM 25'C (77'F)	25' C (77'F)	65' C (149' F)	125 ' C (257 ' F)
H-1 Hardener	14		30 mins.	6 hrs.	30 mins.	15 mins.
H-7 Hardener	29.0		45 mins.	24 hrs.	2 hrs.	30 mins.
Ancamine Z	18.0		4 hrs.	36 hrs.	16 hrs.	2 hrs.
H-10LV Hardener	rigid	33	3 hrs.	24 hrs.	3 hrs.	- - -
H-10LV Hardener	semi-flex	83	3 hrs.	24 hrs.	3 hrs.	- - -
H-10LV Hardener	flexible	133	3 hrs.	24 hrs.	3 hrs.	- - -

### ROOM TEMPERATURE CURE:

- H-1 Hardener: Offers a working time of 30 minutes. Cures in 6 hours at 25' C or 30 minutes at 65' C. Produces a tough, rigid resin with good dimensional stability. Do not heat cure if the mass exceeds 100 grams.
- H-7 Hardener: Offers a working time of 45 minutes. Cures in 24 hours at 25' C or 2 hours at 65' C. Produces a tough, resilient resin with good mechanical and thermal shock properties.
- H-10LV Hardener: Offers a working time of 3 hours. Cures in 24 hours at 25' C or 3 hours at 65' C. Produces a variable hardness resin with excellent impact properties.

### HEAT CURE:

- Ancamine Z: Offers a working time of 4 hours. Cures in 16 hours at 65' C or 2 hours at 125' C. Produces a tough, resilient resin with good mechanical and thermal shock properties plus a high heat distortion temperature of 125' C.

### MIXING INSTRUCTIONS:

Weigh out the desired amount of resin in a clean container. Add the hardener accurately by weight in the proper proportion as specified above. (ie. 14 grams of H-1 Hardener and 100 grams of CC3-100 for a total mix of 114 grams) Mix thoroughly. Use in a well ventilated area and avoid contact with eyes and skin.