

ANCAMINE® 1769 Curing Agent**DESCRIPTION**

Ancamine 1769 curing agent is a hydroxyalkylated polyamine for use in the ambient or elevated-temperature cure of liquid epoxy resins. It is designed to minimize the undesirable skin irritation potential associated with unmodified aliphatic amines.

ADVANTAGES

- Good mechanical and excellent electrical properties
- Low shrinkage and vapor pressure
- Good chemical resistance
- DOT noncorrosive

APPLICATIONS

- Electrical potting and castings
- Wet lay-up laminating
- Tooling
- Adhesives

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 1769 curing agent.

TYPICAL CURE SCHEDULE

- 2-7 days at ambient temperature.
- Gel at ambient temperature plus 2 hours at 212°F.

TABLE 1: TYPICAL PROPERTIES

Appearance	Pale Yellow Liquid
Color (Gardner)	1
Viscosity @ 77°F (cP)	600
Amine Value (mg KOH/g)	965
Specific Gravity @ 77°F	1.01
Density @ 77°F (lb/gal)	8.5
Flash Point (closed cup) (°F)	347
Equivalent Wt/{H}	48
Recommended Use Level (phr, EEW=190)	25

TABLE 2: TYPICAL HANDLING PROPERTIES*

Gel Time (150g mix @ 77°F) (min)	30
Thin Film Set Time @ 77°F (h)	4.0
Peak Exotherm (100g mass) (°F)	302
Peak Exotherm Time (min)	41

TABLE 3: TYPICAL PERFORMANCE PROPERTIES*

(Cure Schedule 2)	
Heat Deflection Temperature (ASTM D648-264 psi) (°F)	125
Barcol Hardness (Model GYZJ-935)	89
Bond Strength (mild steel to mild steel (psi))	1,370
Tensile Strength (psi)	6,090
Tensile Modulus (thousand psi)	363
Elongation (%)	3.9
Flexural Strength (psi)	14,800
Flexural Modulus (thousand psi)	403

* Ancamine 1769 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

Epoxy Curing Agents and Modifiers

ANCAMINE® 1769 Curing Agent

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