

## Product information

# ANCAMINE<sup>®</sup> 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.

### TYPICAL PROPERTIES

| Property                       | Value              | Unit     |
|--------------------------------|--------------------|----------|
| Appearance                     | Pale yellow liquid |          |
| Colour                         | 1                  | Gardner  |
| Viscosity @ 77°F / 25°C        | 600                | cP       |
| Amine Value                    | 965                | mg KOH/g |
| Specific Gravity @ 77°F / 25°C | 1.01               |          |
| Density @ 77°F / 25°C          | 8.5                | lb/gal   |
| Flash Point (closed cup)       | 347                | °F       |
| Equivalent                     | 48                 | Wt/{H}   |
| Recommended use Level EEW=190  | 25                 | PHR      |

### 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 (100°C)**

## TYPICAL HANDLING PROPERTIES\*

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

## THERMAL PERFORMANCE\*

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

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



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