AIR PRODUCTS

Epoxy Curing Agents and Modifiers

Ancamine® 2264 Curing Agent

DESCRIPTION

Ancamine 2264 is an epoxy curing agent with both cycloaliphatic and aromatic character. The product is an ideal alternative to aromatic diamines in the elevated temperature cure of epoxy resins.

ADVANTAGES

- Higher glass transition temperature
- Good toughness
- Excellent solvent resistance
- Improved acid resistance

APPLICATIONS

- Filament winding
- Resin transfer molding
- Casting
- Potting for tooling, electrical and general industrial applications
- Modifier for other curing agents

STORAGE LIFE

At least 24 months from the date of manufacture in the original sealed containers at ambient temperatures. Ancamine 2264 curing agent is slightly hygroscopic and tends to form carbamates in air. Therefore, opened containers require careful resealing and nitrogen blanketing.

HANDLING PRECAUTIONS

Refer to the Material Safety Data Sheet for Ancamine 2264 curing agent.

TYPICAL CURE SCHEDULE

2 hours at 176 °F and 3 hours at 300 °F.

TYPICAL PROPERTIES	
Appearance	Amber Liquid
Color (Gardner)	9
Viscosity @ 77 °F (cP)	2,600
Specific Gravity @ 77 °F	1.00
Amine Value (mg KOH/g)	502
Flash Point (closed cup) (°F)	>227
Equivalent Wt/{H}	54
Recommended Use Level (phr, EEW=190)	29

TYPICAL HANDLING PROPERTIES	
Mixed Viscosity @ 77 °F (cP)	6,300
Gel Time (150 g mix @ 77 °F) (min)	195

TYPICAL PERFORMANCE*	
Glass Transition Temperature (°F) (DSC)	327
Tensile Strength (thousand psi)	10.3
Tensile Modulus (thousand psi)	365
Elongation (%)	4.6

CHEMICAL IMMERSION (120 days)	
	% weight change
25% Acetic Acid	11.52
10% Nitric Acid	3.42
30% Sulfuric Acid	1.79
Acetone	6.49
Toluene	0.64
Methanol	5.64
Ethanol	0.51
10% Ammonium Hydroxide	1.77
10% Sodium Hydroxide	1.49
Deionized Water	1.65

* Ancamine 2264 curing agent formulated with Bisphenol-A based (EEW=182) epoxy resin.

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