

ANCAMINE[®] T**Curing Agent****DESCRIPTION**

Ancamine T is a technical grade of N-(2-hydroxyethyl) diethylene triamine for use as a room temperature curing agent for liquid epoxy resin. It is designed to minimize the undesirable properties of diethylene triamine from which it is derived. The ability to yield excellent mechanical strengths following a heated post-cure make Ancamine T of use in small or heavily filled castings, electrical potting and encapsulation, wet lay-up laminating, tooling, adhesives and patch repair kits.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Clear colorless liquid		
Colour	150	APHA	ASTM D 1544-80
Viscosity @ 25°C/ 77°F	150-350	mPa.s	Brookfield RVTD, spindle 4
Amine Value	1,222-1,202	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C/ 74°F	1.04	g/ml	
Equivalent Wt/{H}	37		
Recommended Use Level	20	phr	With Bisphenol-A diglycidyl ether (EEW=190)

BENEFITS

- High glass transition temperature
- Low viscosity
- Low exotherm

APPLICATIONS

- Composites
- Adhesives
- Electrical potting and encapsulation

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

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

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time (150g mix @ 25°C/ 77°F)	18	min	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix @ 25°C/ 77°F)	152		
Time to Peak Exotherm	30	min	
Thin Film Set Time 25°C/ 77°F	4	h	BK Drying Recorder Phase II

TYPICAL CURE SCHEDULE

- (i) 2-7 days at ambient temperature
- (ii) Gel at ambient temperature + 2 h @ 100°C

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Cure Schedule (ii)			
Tensile Strength	40	MPa	ISO 527
Tensile Modulus	2.0	GPa	ISO 527
Tensile Elongation at Break	1.9	%	
Flexural Strength	110	MPa	ISO 178
Flexural Modulus	2.7	GPa	ISO 527
Heat Distortion Temperature	98	°C	ASTM D648

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