

**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.

**BENEFITS**

- High glass transition temperature
- Low viscosity
- Low exotherm

**APPLICATIONS**

- Composites
- Adhesives
- Electrical potting and encapsulation

**SHELF LIFE**

At least 12 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.

**TABLE 1: TYPICAL PROPERTIES**

<b>Appearance</b>	Clear colorless liquid
<b>Color<sup>1</sup> (APHA)</b>	150
<b>Viscosity<sup>2</sup> @ 25°C (77°F) [mPa.s]</b>	150-350
<b>Amine Value<sup>3</sup> (mg KOH/g)</b>	1,122-1,202
<b>Specific Gravity @ 21°C (74°F) [g/ml]</b>	1.04
<b>Equivalent Wt/{H}</b>	37
<b>Recommended Use Level (phr)<sup>4</sup></b>	20

**TABLE 2: TYPICAL HANDLING PROPERTIES**

<b>Gel Time<sup>5</sup> (150g mix @ 25°C), (77°F) [min]</b>	18
<b>Peak Exotherm (150g mix @ 25°C), (77°F)</b>	152
<b>Time to Peak Exotherm [min]</b>	30
<b>Thin Film Set Time 25°C (77°F) [h]<sup>6</sup></b>	4
<b>Typical Cure Schedule:</b>	
<b>(i) 2-7 days at ambient temperature</b>	
<b>(ii) Gel at ambient temperature + 2 h @ 100°C</b>	

**TABLE 3: TYPICAL PERFORMANCE**

<b>Cure Schedule (ii)</b>	
<b>Tensile Strength [MPa]<sup>7</sup></b>	40
<b>Tensile Modulus [GPa]<sup>7</sup></b>	2.0
<b>Tensile Elongation at Break [%]</b>	1.9
<b>Flexural Strength [MPa]<sup>8</sup></b>	110
<b>Flexural Modulus [GPa]<sup>7</sup></b>	2.7
<b>Heat Distortion Temperature [°C]<sup>9</sup></b>	98

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVTD, spindle 4
- (3) Perchloric Acid Titration
- (4) With Bisphenol-A diglycidyl ether (EEW=190)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder Phase II
- (7) ISO 527
- (8) ISO 178
- (9) ASTM D648

Epoxy Curing Agents and Modifiers

# ANCAMINE® T Curing Agent

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