

ANCAMINE® 1922A Curing Agent**DESCRIPTION**

Ancamine 1922A curing agent is a low viscosity, moderately reactive room temperature curing agent for epoxy resins.

ADVANTAGES

- Imparts excellent thermal shock resistance
- Provides toughness and resiliency in standard liquid epoxy resin formulations
- Provides good electrical properties up to 140°F (60°C)
- Very low vapor pressure

APPLICATIONS

- Electrical potting and encapsulation
- Ambient and heat-cured structural adhesives for aerospace, automotive, electrical and other high-performance applications
- Composite binders

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 1922A curing agent.

TYPICAL CURE SCHEDULE

- 1) 2-7 days at ambient temperature.
- 2) Gel at ambient temperature plus 2 hours at 212°F (100°C).

TABLE 1: TYPICAL PROPERTIES

Appearance:	Colorless Liquid
Color¹ (Gardner)	1
Viscosity² @ 77°F (25°C) (cP)	10
Amine Value³ (mg KOH/g)	507
Specific Gravity⁴ @ 77°F (25°C)	1.00
Density @ 77°F (25°C) (lb/gal)	8.4
Flash Point⁵ (°F)	335
Equivalent Wt/{H}	55
Recommended Use Level (phr, EEW=190)	29

TABLE 2: TYPICAL HANDLING PROPERTIES

Gel Time⁶ [150g mix @ 77°F (25°C)] (min)	57
Peak Exotherm⁷ (100g mass) (°F)	306
Peak Exotherm Time (min)	85

TABLE 3: TYPICAL PERFORMANCE

7-day cure @ ambient temperature	
Glass Transition Temp (ASTM D3418-82) (°F)	117
Flexural Strength⁸ (psi)	13,200
Flexural Modulus⁸ (psi)	400,000

Footnotes:

- (1) ASTM D1544-80
- (2) ASTM D455-83
- (3) Perchloric Acid Titration
- (4) ASTM D147-85
- (5) Seta Flash Closed Cup
- (6) Techne GT-4 Gelation Timer
- (7) ASTM D2471-71
- (8) ASTM D790-86

Epoxy Curing Agents and Modifiers

ANCAMINE® 1922A Curing Agent

EVONIK CORPORATION

7201 Hamilton Blvd.
Allentown, PA 18195
1 800 345-3148
Outside U.S. and Canada 1 610 481-6799

For Technical Information and Support:

Americas: picus@evonik.com
EMEA: apcse@evonik.com

Disclaimer

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

