

Product information

ANCAMINE[®] 1916

Curing Agent

DESCRIPTION

Ancamine 1916 curing agent is an aliphatic amine adduct intended for use with liquid epoxy resins at room or elevated temperature cure.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Clear, Straw-Colored Liquid	
Colour	4	Gardner
Viscosity @ 77°F (25°C)	6,000	cP
Amine Value	840	mg KOH/g
Specific Gravity @ 77°F (25°C)	1.1	
Density @ 77°F (25°C)	9.1	lb/gal
Flash Point	212	°F
Equivalent Wt/{H}	43	
Recommended use Level (EEW=190)	25	PHR

ADVANTAGES

- Very good chemical and boiling water resistance
- Ability to provide good color, high rigidity and physical strength
- FDA approved under 21 CFR 175.300 (coatings and cements) and 21 CFR 175.105 (adhesives)
- Good chemical resistance to aqueous acids and alkalis, distilled water, and hydrocarbon solvents

APPLICATIONS

- FDA-compliant, solvent-free and solution coatings
- Heat-resistant coatings
- Wet lay-up laminates
- Small castings
- Patch repair kits

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 1916 curing agent.

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.

TYPICAL CURE SCHEDULE

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

TYPICAL HANDLING PROPERTIES*

Property	Value	Unit
Mixed Viscosity @ 77°F (25°C)	9,300	cP
Gel Time [150g mix @ 77°F (25°C)]	23	min
Thin Film Set Time @ 77°F (25°C)	4	h
Peak Exotherm [100g mix @ 77°F (25°C)]	322	°F
Peak Exotherm Time	32	min

THERMAL PERFORMANCE*

Property	Value	Unit
(Cure Schedule 2)		
Heat Deflection Temp (ASTM D648-264 psi)	226	°F
Flexural Strength	12,500	psi
Flexural Modulus	334	thousand psi
Tensile Strength	3,900	psi
Tensile Modulus	390	thousand psi
Elongation	1.2	%
Barcol Hardness (Model GYZJ-935)	87	
Bond Strength (mild steel to mild steel)	1,525	psi

* Ancamine 1916 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin

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