

**ANCAMINE<sup>®</sup> 1769****Curing Agent****DESCRIPTION**

Ancamine 1769 is a hydroxyalkylated polyamine for use as a room temperature curing agent for liquid epoxy resin. It is designed to minimise the undesirable skin irritation potential associated with triethylenetetramine from which it is derived. Cured systems based on this product exhibit good mechanical properties. Applications include potting, small and heavily filled castings, autobody patch repair kits, laminates, and gel coats.

**TYPICAL PROPERTIES**

Property	Value	Unit	Method
Appearance	Clear colourless liquid		
Colour	4	Gardner	ASTM D 1544-80
Viscosity @ 25°C	600-900	mPa.s	Brookfield RVT, Spindle 4
Amine Value	975	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.01	g/ml	
Equivalent	48	Wt/{H}	
Recommended use Level	25	PHR	With Bisphenol A diglycidyl ether (EEW=190)

**ADVANTAGES**

- Excellent chemical resistance
- Good mechanical and electrical properties
- Low viscosity
- Low skin irritation potential

**APPLICATIONS**

- Potting and casting
- Laminates and composites
- Autobody patch repair kits
- Gel coats
- Adhesives

## 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 1769 curing agent.

## TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time (150g mix @ 25°C)	24	min	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	150	°C	
Thin Film Set Time 25°C	4	h	BK Drying Recorder Phase III

## TYPICAL CURE SCHEDULE

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

## TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Following cure schedule (ii)			
Tensile Strength	42	MPa	ISO 527
Tensile Modulus	2.5	GPa	ISO 527
Tensile Elongation at Break	3.9	%	
Flexural Strength	102	MPa	ISO 178
Flexural Modulus	2.8	GPa	ISO 178
Heat Distortion Temperature	99	°C	ASTM D 648

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