

ANCAMINE® 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.

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 PROPERTIES

| | |
|---|-------------------------|
| Appearance | Clear colourless liquid |
| Colour¹ (Gardner) | 4 |
| Viscosity² @ 25°C [mPa.s] | 600-900 |
| Amine Value³ [mg KOH/g] | 975 |
| Specific Gravity @ 21°C, [g/ml] | 1.01 |
| Equivalent Wt/{H} | 48 |
| Recommended use Level⁴, [PHR] | 25 |

TYPICAL HANDLING PROPERTIES

| | |
|--|-----|
| Gel Time⁵ (150g mix at 25°C), [mins] | 24 |
| Peak Exotherm (150g mix at 25°C), [°C] | 150 |
| Thin Film Set Time⁶ 25°C, [h] | 4 |
| Typical cure schedule | |
| (i) 7 days cure at ambient temperature | |
| (ii) Gel at ambient temperature + 2h at 100°C | |

TYPICAL PERFORMANCE PROPERTIES

| | |
|--|-----|
| Following cure schedule (ii) | |
| Tensile Strength⁷, [MPa] | 42 |
| Tensile Modulus⁷, [GPa] | 2.5 |
| Tensile Elongation at Break [%] | 3.9 |
| Flexural Strength⁸, [MPa] | 102 |
| Flexural Modulus⁸, [GPa] | 2.8 |
| Heat Distortion Temperature⁹, [°C] | 99 |

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 III
- (7) ISO 527
- (8) ISO 178
- (9) ASTM D648

Epoxy Curing Agents and Modifiers

ANCAMINE® 1769 Curing Agent

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