

Product information

ANCAMINE® K54

Curing Agent

DESCRIPTION

Ancamine K54 (tris-2,4,6-dimethylaminomethyl phenol) is an efficient activator for epoxy resins cured with a wide variety of hardener types including polysulphides, polymercaptans, aliphatic and cyclo-aliphatic amines, polyamides and amidoamines, dicyandiamide, anhydrides. Applications for Ancamine K54 as a homopolymerisation catalyst for epoxy resin include adhesives, electrical casting and impregnation, and high performance composites.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Physical State	Amber liquid		
Colour	6 max	Gardner	ASTM D 1544-80
Viscosity @ 25°C	120-250	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	630	mg KOH/g	Perchloric Acid Titration
Assay as K54	96.0 min	%	
Specific Gravity @ 25°C	0.98	g/cm ³	
Flash Point (closed cup)	140	°C	
Boiling point	250	°C	
Free water	0.5 max	%	

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container stored undercover at ambient temperature away from excessive heat and humidity.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine K54 curing agent.

CATALYTIC USAGE

- (i) 5-15 parts per 100 parts of standard liquid epoxy resin having an epoxide equivalent weight of 190
- (ii) 2-5 parts per 100 parts of resin as an activator for other curing agents
- (iii) 5-15 parts per 100 parts of standard liquid epoxy resin in co-cure with liquid polysulphide

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time (150g mix at 25°C)	45	mins	Techne GT-4 Gelation Timer

TYPICAL CURE SCHEDULE

1h @ 80°C as homopolymerisation catalyst

Property	Value	Unit	Method
Glass Transition Temperature	90	°C	DSC

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