



MORGAN MATERIALS

INCORPORATED

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Technical Data Sheet

Resin 834
 Resin 834-D-90
 Resin 834-X-80

Product Description

Resin 834, a high viscosity liquid epoxy resin produced from bisphenol A and epichlorohydrin. It contains no diluent. The resin, which is pourable when warmed, is also available as a 90 %m/m solution in di-acetone alcohol, Resin 834-D-90, and an 80 %m/m solution in xylene, Resin 834-X-80.

Application Areas/Suggested Uses

834 can be used for coal-tar extended, heavy duty, protective coatings.

Benefits

- High solids coating application
- Imparts good corrosion protection
- Imparts good water resistance

Sales Specification

Property	Unit	Value	Test Method/Standard
Epoxy group content	mmol/kg	3800 - 4250	SMS 2026
Viscosity at 25°C*	mPa.s**	2.1 - 2.4	ASTM D445
Colour*	Pt-Co	200 max	ASTM D1209
834-D-90			
Epoxy group content	mmol/kg	3800 - 4250	SMS 2026
Non volatile content (solvent: di-acetone alcohol)	% m/m	89 - 91	SMS 1524
834-X-80			
Epoxy group content	mmol/kg	3800 - 4250	SMS 2026
Non volatile content (solvent: xylene)	% m/m	79 - 81	SMS 1524

* 40% m/m solution in methyl ethyl ketone, prepared according to SMS 1595.

** 1 mPa.s = 1 cPoise

Typical Properties

Property	Unit	Value	Test Method/Standard
834			
Epoxy Molar Mass*	g/eq	235 - 263	SMS 2026
Density at 25°C	kg/l	1.18	ASTM D4052
Flash point (PMCC)	°C	>200	ASTM D93