

D.E.N.™ 425

Please use this Technical Data Sheet (TDS) in conjunction with this product’s country specific Safety Data Sheet (SDS) and the safe use conditions as described therein. Current Safety Data Sheets can be requested from Olin at info@olin.com

DESCRIPTION

D.E.N. 425 Epoxy Novolac Resin is a liquid reaction product of epichlorohydrin and phenol-formaldehyde novolac.

D.E.N. 425 Epoxy Novolac Resin is an epoxidized phenolic resin of higher functionality than standard bisphenol A based liquid epoxy resins. Epoxy novolac resins combine, in one molecule, the thermal stability of a phenolic backbone with the reactivity and versatility of an epoxy. They are distinguished by particular good thermal stability, mechanical strength and resistance against chemicals. They find ready acceptance for lining pipelines, storage tanks and pumps. D.E.N. 425 Epoxy Novolac Resin has been developed to fill the gap between the two functional standard bisphenol F based liquid epoxy resins and the high viscous epoxy novolac resins. It has a viscosity similar to a standard bisphenol A based liquid epoxy resin. The multi-functionality, ± 2.5 epoxy groups per mole, of D.E.N. 425 Epoxy Novolac Resin produces a more tightly cross-linked cured system than bisphenol A based liquid epoxy resins having improved high temperature performance and improved resistance against various chemical.

D.E.N. 425 Epoxy Novolac Resin can be formulated to fully cure at ambient temperatures with the corresponding curing agents without the need of additional heat cure.

TYPICAL APPLICATIONS

- Composites
- Construction & Civil Engineering
- Electronics: Casting
- Electronics: Encapsulation
- Electronics: Potting
- Electronics: Tooling
- Industrial Liquid Coatings: Maintenance and Protective
- Industrial Liquid Coatings: Marine

TYPICAL PHYSICAL PROPERTIES

Property	Conditions	Value	UOM	Method
Color		<250	Pt-Co	ASTM D1209
Density	25 °C, 77 °F	1.20	g/cm3	ASTM D4052
Epoxide Equiv WT (EEW)		165 - 175	g/eq	ASTM D 1652
Viscosity	77 °F, 25 °C	9500 - 13500	mPa*s	ASTM D445

Typical properties, not to be construed as specifications

PRODUCT STEWARDSHIP

At Olin, our Product Stewardship program is guided by our core values – Act with Integrity, Drive Innovation and Improvement, and Lift Olin People. We are committed to the safe handling and use of our products – and enabling all of our collaborators throughout the value chain to do the same. As a responsible corporate citizen and certified to RC14001®:2015, we assess the safety, health, and environmental information on our products, and then take appropriate steps to protect employees, public health, and the environment. Ultimately, the success of our product stewardship program rests with each and every individual involved with Olin products – from the initial concept and research to the manufacture, sale, distribution, use, disposal, and recycling of each product.

REGULATORY DATA SHEETS (RDS)

Olin Corporation provides information on the regulatory status of its products under prominent regulatory programs in the Regulatory Datasheet (RDS). Regulatory Datasheets can be requested from Olin at info@olin.com

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