



Technical Data

DEMTROL™ 2020

Demulsifier Base

Description

DEMTROL™ 2020 Demulsifier Base is an alkoxyated alkyl phenol formaldehyde resin with an approximate average molecular weight of 4,500 daltons. It is used in a demulsifier formulation for the quick and effective separation of water from water-in-oil emulsions. This product has a wide API range, which is most useful in applications involving high-salinity oils. Solvents are used during the production process of this demulsifier base, resulting in a final active content range of 80-90 percent. In addition, the solvent properties must be considered when using this product.

Features and Benefits

- Easily formulated with other Dow demulsifier bases
- Efficient performance rate in separating out water found in water-in-oil emulsions
- Increased cost-effectiveness with the ability to store lower volumes than other solvent-based material and greater flexibility to use the solvent of choice in the final formulation
- Efficient demulsification properties that allow for efficient emulsion-breaking, leading to the optimization of the water phase quality in formulations and a more simplified final product
- Optimal oil and water separation due to coalescent properties; breaks emulsion stabilization thermodynamic barriers

Typical Physical Properties⁽¹⁾

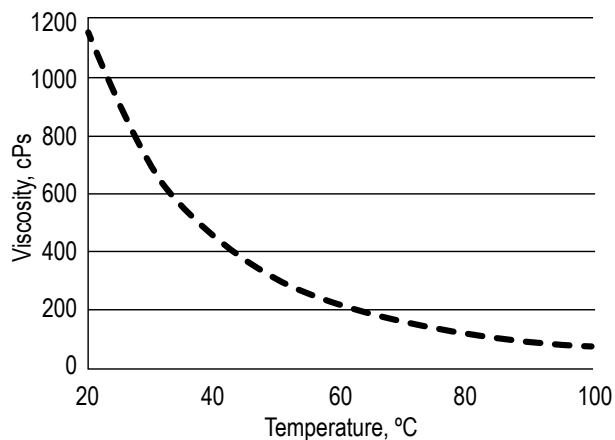
Property	Value
Appearance, Room Conditions ⁽²⁾	Amber to brown viscous liquid
RSN ⁽³⁾	11
Solubility in Water, Room Conditions	Negligible
Hygroscopicity, Room Conditions	Low
Density, lb/gal, 77°F	8.40
Density, g/cm ³ , 25°C	1.01
Vapor Pressure @ 25°C, mm Hg	0.9
Pour Point, °C	<15
Flash Point, °C	20
% Active	80-90

(1) Typical properties. Not to be construed as specifications.

(2) Room conditions are considered to be 25°C and 1 atm.

(3) The relative solubility number (RSN) was determined by titrating water in a solution containing 1 g of DEMTROL™ demulsifier and 30 ml toluene (2.6 vol%) and ethylene glycol methyl ether (97.4 vol%). RSN is reported as the volume of water needed to make a solution turbid or cloudy.

Viscosity versus Temperature
DEMTROL™ 2020 Demulsifier



Storage and Packaging

When stored in the original unopened containers, DENTROL™ 2020 Demulsifier Base has a usable life of 24 months from the date of production.

DEMTROL crude oil demulsifier bases are available in a variety of container sizes. Contact your local Dow sales representative for information about container sizes available in your area.

Product Stewardship

When considering the use of any Dow products in a particular application, you should review the latest Material Safety Data Sheets from Dow and ensure that they are intended for safe use. For Material Safety Data Sheets and other product safety information, contact Dow. Before handling any other products mentioned in the text, you should obtain available product safety information and take necessary steps to ensure safety of use.

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Note: This guide is designed as a general product overview. Please contact your local Dow representative for up-to-date, detailed technical information including registrations and use limitations and to discuss individual applications or requirements.

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