



Technical Data

DEMTROL™ 2045

Demulsifier Base

Description

DEMTROL™ 2045 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 60-70 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⁾

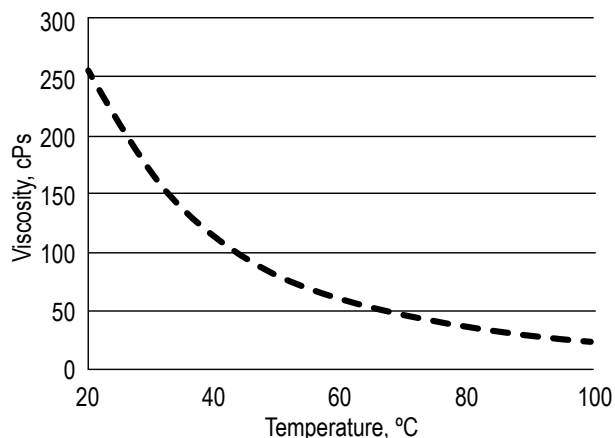
Property	Value
Appearance, Room Conditions ⁽²⁾	Yellow to brown viscous liquid
RSN ⁽³⁾	15
Solubility in Water, Room Conditions	Negligible
Hygroscopicity, Room Conditions	Low
Density, lb/gal, 77°F	8.22
Density, g/cm ³ , 25°C	0.98
Vapor Pressure @ 25°C, mm Hg	0.9
Pour Point, °C	<15
Flash Point, °C	15
% Active	60-70

(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™ 2045 Demulsifier



Storage and Packaging

When stored in the original unopened containers, DENTROL™ 2045 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.

No chemical should be used as or in a food, drug, medical device or cosmetic, or in a product or process in which it may contact a food, drug, medical device or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Dow requests that the customer read, understand and comply with the information contained in this publication and the current Material Safety Data Sheet(s). The customer should furnish the information in this publication to its employees, contractors and customers, or any other users of the product(s), and request that they do the same.

The Dow Chemical Company

U.S., Canada, Mexico:

Toll Free 1-800-447-4369

Latin America: (+55) 11-5188-9222

Europe:

Toll Free +800-3-694-6367*
(+32) 3-450-2240

Asia Pacific:

Toll Free +800-7776-7776*
(+60) 3-7958-3392

Middle East (Dubai): +971-4-453-7000

North Africa (Cairo): +202-2-480-1462

*Toll-free service not available in all countries

www.dowoilandgas.com

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.

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

