



DOWFAX 63N30
Nonionic Surfactant

**General
Information**

The Dow Chemical Company is a science and technology-based company and one of the world's largest producers of polyalkylene glycols. Our worldwide research, manufacturing, and distribution includes facilities in Europe, North America, Latin America, and Asia-Pacific. With over 30 years experience in polyglycol manufacturing, the industry's broadest product line, and a leadership position in new product development, Dow is uniquely positioned to meet the needs of a diverse global marketplace. This success results from expanding our customers' markets through combined customer formulation knowledge and Dow alkoxylation expertise in joint development applications. Together we focus these resources to help ensure success for our customers and their products.

**DOWFAX Nonionic
surfactants**

DOWFAX* Nonionic Surfactants are high-performance products that feature excellent solvency, low foam characteristics, chemical stability, and a long list of other valuable performance properties. They are produced by polymerizing ethylene oxide (EO), propylene oxide (PO), and/or butylene oxide (BO) in the same molecule. The ratio and order of oxide addition, together with the choice of initiator, control the chemical and physical properties.

DOWFAX 63N30 Nonionic Surfactant is a linear copolymer that is a viscous liquid at room temperature. It is an efficient surfactant by having good wetting ability, high degree of detergency and low foam characteristics. DOWFAX 63N30 Nonionic Surfactant is readily miscible in water and can be used in combination with other surfactants in a wide variety of aqueous formulations. The optimum operating temperature range for wetting and low foam control is +/- 10°C of the surfactant's cloud point in that system.

**Applications and
Uses**

DOWFAX 63N30 Nonionic Surfactant makes a particularly efficient high temperature foam control agent because of its reverse water solubility and low foam characteristic. It is used in such processes as fermentation, food processing, adhesives, paper processing and metalworking products. DOWFAX 63N30 Nonionic Surfactant can also be reacted with an organic acid to form esters, which are also effective foam control agents.

DOWFAX 63N30 Nonionic Surfactant is used in a wide variety of cleaning applications. Due to its low foam characteristics, good wetting ability and good detergency, it is used as a rinse aid in household cleaning and industrial cleaners like metal cleaning, as an emulsifier in oil/water solutions, as an industrial surfactant, and as a component in sanitizing solutions.

**Technical
Expertise
When and Where
You Need It**

Dow experts on DOWFAX Nonionic Surfactants are regionally located to quickly respond to your needs. They are globally networked to take maximum advantage of years of combined experience. Whether your question involves products, applications, or regulations, Dow offers comprehensive customer and technical service.

DOWFAX Nonionic Surfactants

Your first choice

TABLE 1: Typical Properties of DOWFAX 63N30 Nonionic Surfactant

Property (Unit)	Typical Value	Test Method
Viscosity @ 25°C (cSt)	441	ASTM D 445 / D 446
Cloud Point, 1% Aqueous (°C)	32	ASTM D 2024
Cloud Point, 10% Aqueous (°C)	33	ASTM D 2024
Cloud Point, 10% Solvent ¹ (°C)	62	ASTM D 2024
Wetting time @ 25°C (sec)	34.4	DIN 53901
Wetting time @ 70°C (sec)	45	DIN 53901
Surface Tension ² (mN/m)	> 300	ASTM D 1331
Pour Point (°C)	-5	ASTM D 97
Specific Gravity (g/cm ³ @ 25°C/25°C)	1.040	ASTM D 892

¹ 10% surfactant in a solution of 25% diethylene glycol butyl ether in water
Temperature 20°C, 1% surfactant in water

No liability, warranty or guarantee of final product performance is created by this document.

Handling

handling information, or to obtain a DOWFAX 63N30 Nonionic Surfactant Material Safety Data

63N30 Nonionic Surfactant has been shown to be readily biodegradable in the Respirometry test according to OECD Guideline 301 F.

Stewardship

review their applications from the standpoint of human health and environmental aspects. To intended or tested, Dow personnel will assist customers in dealing with environmental and consulted prior to the use of DOWFAX 63N30 Nonionic Surfactant.

Contact information: North America:

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 governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

