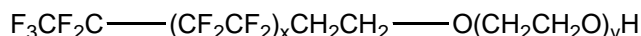


# Masurf<sup>®</sup> FS-1800 Series

## FS-1800/FS-1825EB



### Fluoroaliphatic Surfactants

#### Overview

MASURF<sup>®</sup> FS-1800 SERIES is characterized as fluoroaliphatic polyoxyethylene fluorosurfactants in a range of 100% active to various water/alcohol/glycol ether solutions. FS-1800 SERIES is a low foam nonionic fluorosurfactant with the ability to contribute exceptional wetting, spreading and leveling properties to a wide range of systems. With typical use levels of 50-500ppm, MASURF FS-1800 SERIES is effective at very low concentrations, and together with traditional hydrocarbon surfactants, can contribute properties not possible with either material alone.

MASURF FS-1800 SERIES products are stable in anionic and cationic systems, effective in high or low pH, and recommended in a wide range of applications. With unique surface diffusion properties, FS-1800 SERIES imparts anti-soiling and improved weatherability when formulated into **Adhesives, Caulks, Coatings and Sealers**. Useful in **Water-Based Latex Paints** to extend open-time (wet-edge time). In **Performance Polymer Systems**, FS-1800 SERIES acts as coupling agents for fillers, and imparts anti-soiling performance. In **Plating Applications**, FS-1800 SERIES improves stability of bath and contributes to brightness and adhesion. In **Ink** (flexographic or gravure) applications, overall performance can be improved by using a blend of Masurf FS-1800 SERIES with acetylenic surfactants, and is useful in avoiding "solvent shock" in ink/solvent letdowns.

Compare to Zonyl<sup>®</sup> FSH, Fluowet<sup>®</sup> OTN.

#### Typical Properties

	<u>FS-1800</u>	<u>FS-1825EB</u>
Physical form .....	Tan paste	Tan liquid
Actives content .....	100 wt%	25 wt%
Flash point (TCC) .....	Self Extinguishing	>200°F/93°C
VOC content % .....	0	25 (2-Butoxyethanol)
Specific gravity @25°C .....	1.35±0.04	1.06±0.04
pH .....	6.0±1.5	6.0±1.5

Aqueous surface tension @25°C dynes/cm..... 22@0.001%, 20@ 0.01% actives

Interfacial tension (0.1%aq./cyclohexane)..... 10 dynes/cm

Storage .....

Store above 32°F and below 100°F

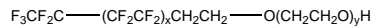
#### Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

*Masurf is a Registered Trademark of Mason Chemical Company.*

*Zonyl is a Registered Trademark of DuPont, Fluowet is a Registered Trademark of Clariant.*

# Masurf<sup>®</sup> FS-1800 Series



MASURF FS-1825EB is characterized as a 25% active fluoroaliphatic polyoxyethylene fluorosurfactant in a water/2-butoxyethanol solution. FS-1825EB is an effective wetting and interfacial tension reducing agent with very good alkaline stability.

## **Masurf FS-Fluorosurfactant evaluation guidelines-**

Masurf FS-Fluorosurfactants are effective at very low concentrations, typically 50-500 ppm, and can act synergistically with hydrocarbon and/or silicone surfactants. Evaluate in aqueous formulations at 0.1% active Masurf FS-Fluorosurfactant initially, then optimize by successively reducing the FS concentration by ½.

Masurf FS-Fluorosurfactants and Masurf FP-Fluoropolymers do not contain PFOS. Masurf FS and FP products are manufactured with telomerization process fluoroaliphatic intermediates that do not contain, release or have been shown to degrade to perfluorooctane sulfonate (PFOS).