



# CHEM GUARD FS-183

## High Performance Amphoteric Fluorosurfactant

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### Product Description

Chemguard FS-183 is a 40% actives proprietary amphoteric fluorosurfactant for use in the preparation of highly fluorine efficient AFFF agents. It is compatible with anionic, cationic, amphoteric and nonionic hydrocarbon or fluorochemical surfactants. It provides excellent performance in AFFF, FFFP, and polar formulations. The nonflammable nature of Chemguard FS-183 assists the formulator in developing nonflammable foam concentrates.

### Typical Properties<sup>1</sup>

Appearance	Clear, light amber liquid
Composition	40% actives, 30% solvents, 30% water
Density	1.22g/ml at 25°C
pH	6.0-8.5
Aqueous Surface Tension dynes/cm (mN/m), 25°C (77°F), Kruss Tensiometer K100	
0.1% Actives	15.0-16.0
0.01% Actives	16.5-19.0
Flash Point	>93°C (200°F) Pensky-Martens Closed Cup
Freezing Point	10°C (DSC 5°C/min heating rate)

<sup>1</sup> Not for specification purposes.

### Storage and Shelf Life

Chemguard FS-183 should be stored between 15°C and 50°C. Some solids begin to separate at temperatures below 10°C over time. If frozen or if solids separate, warm to room temperature before use. Freezing and thawing will not affect the properties or performance.

Shelf life is at least three years if stored tightly sealed in the original container at temperatures below 50°C (151°F).

### Health and Safety

Chemguard does not recommend this product for use in applications involving repeated exposure to skin contact, inhalation, or ingestion. This product is not intended to be used for medical, cosmetic, food or pharmaceutical applications.

Chemguard Fluorosurfactants do not contain PFOS, PFOA or derivatives that decompose them. All perfluoro-intermediates are derived from the telomerization process.

Please refer to the material safety data sheet (MSDS) for recommended disposal, handling, and protection information.

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