

Capstone™ 1183

Fluorosurfactant

Water-Soluble Additive for Firefighting Foam

Technical Information

Description

Capstone™ 1183 is an amphoteric partially fluorinated surfactant that significantly reduces the surface tension of aqueous solutions. Capstone™ 1183 enables the formation of an aqueous film that is distributed over the entire surface of the hydrocarbon.

Applications

Capstone™ 1183 is a film-forming fluorinated surfactant used in aqueous film-forming foam (AFFF) and alcohol-resistant formulations (AFFF-AR) against hydrocarbons and polar liquid fires. Capstone™ 1183 can be blended with Capstone™ 1157.

Typical Properties

Appearance	Clear to hazy, amber-colored liquid
Chemical Structure	Amine oxide partially fluorinated surfactant
Active Matter, wt%	39–41
Solvent	Ethanol/water
Density at 20 °C (68 °F)	1.07
pH	6.5–8.5
Flash Point (Closed Cup), °C (°F)	25 (77)

Please refer to product specifications data sheet for commercial specifications.

General Properties

Solubility at Ambient Temperature:	
Water	Soluble
Ethanol	Soluble

Surface Tension at 25 °C (77 °F) in Aqueous Solution, mN/m

Capstone™ 1183	0.01%	0.05%	0.1%
Surface Tension	19	15.5	15.4

Ross-Miles Foaming Data

Concentration of Capstone™ 1183 at 0.5 g/L	mL of Foam After		
	30 sec	3 min	5 min
Deionized Water	350	340	340
Artificial Seawater	120	120	120

Personal Safety, First Aid, Storage and Handling

See the Safety Data Sheet (SDS) for specific product information. Like any other chemical product, fluorinated surfactants must be handled and used with care. Normal care should be taken to avoid skin and eye contact. Before using this product, please read the current SDS and precautionary statement on the product package. Follow all applicable directions.

Capstone™ Repellents and Surfactants

- Deliver more sustainable solutions with maximum performance
- Are in compliance with REACH requirements
- Are listed on TSCA inventory

For questions regarding technical data, commercialization, and sampling:

Chemours Fluoroproducts

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