

DuPont™ Forafac® 1183

Fluorinated Surfactant

Forafac® 1183 is an amphoteric perfluorinated surfactant, whose main property is to significantly reduce the surface tension of aqueous solutions.

This fluorinated surfactant enables the formation of an aqueous film that is distributed over the whole surface of the hydrocarbon.

Forafac® 1183 is widely used as a film forming agent in fire fighting foam concentrates against hydrocarbon and polar liquid fires (in the case of an alcohol-resistant fire fighting foam). Forafac® 1183 can eventually be blended with Forafac® 1157 and 1157 N.

Physical Characteristics

Please refer to product specifications data sheet for guaranteed commercial specifications.

Appearance	Clear amber-colored liquid
Chemical structure	Perfluoroalkyl amine oxide
Active matter, wt%	40
Solvent	Ethanol/water
Density at 20°C (68°F)	1.07
pH	7
Flash point (closed cup)	25°C (77°F)

General Properties

Solubility at ambient temperature:	
Water	Soluble
Ethanol	Soluble

Interfacial tension at 25°C (77°F) between n-Heptane and a solution at 0.5 g/L of Forafac® 1183 4.5 mN/m

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

Forafac® 1183	0.01%	0.05%	0.1%
Surface tension	19	15.5	15.4

Foaming Power (Ross-Miles Method)

Concentration of Forafac® 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

Applications

Forafac® 1183 is a film forming fluorinated surfactant used in aqueous film forming foam (AFFF) and alcohol-resistant formulation AFFF-AR (against hydrocarbons and polar liquid fires).

Precautions—Toxicity

Like any other chemical product, fluorinated surfactants must be handled and used with care (any contact with the skin and eyes is to be avoided).

A safety data sheet is available on request.

U.S. Sales and Services

For placing orders or requesting additional product information, please use our convenient 24-hour, toll-free telephone number. If you prefer, you can write to us.

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