



PROFILM (AFFF) Aqueous Film Forming Foam Synthetic based New version - C6 purity-compliant

AFFF - Aqueous Film Forming Foam concentrate
For use on Hydrocarbon fires - Low & Medium Expansion

Composition



✓ NO PFOS
✓ NO PFOAS

This Formulation contains only telomer-based fluorosurfactants with a short chain (C6 or below) that cannot degrade in the environment into PFOA or other PFCA's.

IMPORTANT:

C6 telomer-based fluorosurfactants also are not bioaccumulative or toxic to the environment.

PROFILM is composed of fluorocarbon surfactants, hydrocarbon effective surfactants, and corrosion inhibitors.

The special formulation of **PROFILM** creates a high foaming ability, an outstanding fluidity and an excellent cooling effect, enabling very rapid fire knockdown.

Moreover, the short drainage time allows the formation of a floating aqueous film providing excellent resistance to vapour release and long term burn-back resistance.

Principle of Operation



PROFILM is designed and recommended for fast fire extinction to save human lives by preventing catastrophic fire development, in particular when used in fire-fighting vehicles at the airports and with fixed fire systems in heliports.

Furthermore, it is best for use in sprinkler installations, where it benefits from its extinction qualities, even at a low expansion ratio (3-5), thanks to its film-forming properties.

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Induction Ratio



PROFILM is available in three standard versions:

- 6 % (6 L foam concentrate + 94 L water = 100 L foam solution)
- 3 % (3 L foam concentrate + 97 L water = 100 L foam solution)
- 1 % (1 L foam concentrate + 99 L water = 100 L foam solution)

Method of Application



PROFILM, thanks to its resistance to hydrocarbon pollution, can be used in direct application (nozzle, monitor, sprinkler).

It is most suitable for simultaneous use with compatible powders in twin-agents or extinguishers.

Field of Application

PROFILM is principally recommended for protection against fire in:



Airports



Heliports



Loading platforms



Sprinkler systems

General Characteristics

PROFILM is in conformity with all national and international standards and in particular with European standards EN 1568-1 and 3.

PROFILM can be used with fresh and sea water.

PROFILM properties do not change in case of frost. It recovers its initial properties as soon as it is defrosted.

Storage and Shelf-life



PROFILM has a long shelf life if stored properly in the original unbroken packaging. Its shelf life may exceed 10 years if maintained correctly. As with all foam liquids, storage temperature and conditions are important factors for an optimal shelf life.

If the product is frozen during storage or transport, thawing will render the product completely usable.

PROFILM, like other synthetic foam concentrates, is recommended to be stored in stainless steel or plastic containers. Furthermore, since electrochemical corrosion can occur at joints between different metals when they are in contact with the foam liquid, the best is to use the same type of material for tanks, pipelines and fittings used for the storage of the foam concentrate.

We recommend following our guidelines to ensure optimal storage conditions.

Physico-Chemical Characteristics

foam concentrate	u.m.	1%	3 & 6 %
density @ 20°C	kg/l	1.03 ± 0.02	1.03 ± 0.02
pH @ 20°C		6 - 9	6 - 8
viscosity @ 20°C	mm ² /s	≥ 2	≥ 2
pour point *	°C	≤ - 5	≤ - 5
undissolved solids	% V/V	≤ 0.2	≤ 0.2

* The product is also available in low temperature versions with pour points of -15°C and -20°C. Furthermore, the concentrations of 6 and 3 % can also be provided at -25°C & -30°C.

Typical Foam Properties

The foam properties of **PROFILM** vary depending on the performance characteristics of foam equipment used and the operating conditions.

PROFILM tested in accordance with the EN 1568:3 gives the following typical properties:

foam solution	1%	3 & 6 %
Expansion Ratio	≥ 6	≥ 7
25% drainage time	≥ 2'30"	≥ 2'30"