TECHNICAL DATA SHEET

PROFILM AFFF Aqueous Film Forming Foam Synthetic based

For use on Hydrocarbon fires - Low & Medium Expansion

Composition

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 drainage time allows the formation of a floating aqueous film providing excellent resistance to vapour release and long term burnback 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.

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 o f Application

PROFILM is principally recommended for protection against fire in:

airports and heliports
loading platforms
sprinkler systems

General Characteristics

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

PROFILM has a long shelf life if stored correctly. We advise to store the product sealed in its original container, away from important temperature variations and corrosive atmospheres.

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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, -20°C, -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"

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