



## TECHNICAL INFORMATION

Issued on 09.2003

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# PROFILM

## AFFF (Aqueous Film Forming Foam) Synthetic based For use on Hydrocarbon fires Low & Medium Expansion

### COMPOSITION

The AFFF foam concentrate "PROFILM" is composed of fluorocarbon surfactants, hydrocarbon effective surfactants, and corrosion inhibitors.

The special formulation of PROFILM gives 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 an excellent resistance to vapour release and giving long term burnback resistance, even in absence of foam generation.

### PRINCIPLE OF OPERATION

PROFILM is designed and recommended for fast fire knockdown to save human lives, in addition to preventing catastrophic fire development; in particular when used in fire-fighting vehicles in the airports and 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 two versions :

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

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## MTHOD 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 and heliports
- loading platforms
- sprinkler systems

## TECHNICAL CHARACTERISTICS

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

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.

## PHYSICO-CHEMICAL CHARACTERISTICS

According to EN 1568 :

	PROFILM 3	PROFILM 6
• Foam concentrate		
□ Specific gravity @ 20° C	1.02 ± 0.02 kg/l	1.02 ± 0.02 kg/l
□ pH @ 20° C	7.0 – 8.5	7.0 – 8.5
□ Viscosity @ 20° C	4 ± 2 mm <sup>2</sup> /s	4 ± 2 mm <sup>2</sup> /s
□ Pour point *	≤ - 5° C	≤ - 5° C
□ Undissolved solids	≤ 0.1 %	≤ 0.1 %
• Foam solution	3 %	6 %
□ Low expansion	≥ 7	≥ 7
□ 25 % drainage time	≥ 2.5 min	≥ 2.5 min

\* The product is also available in low temperature version with pour point < - 15° C.