

TECHNICAL DATA SHEET

# PROFILM AR

All-purpose AFFF Aqueous Film Forming Foam Synthetic based

Use on Hydrocarbon and Polar Solvents fires - Low, Medium, High Expansion

## Composition

**PROFILM AR** is composed of fluorocarbon surfactants, hydrocarbon effective surfactants, corrosion inhibitors, and special natural soluble polymers, which confer to the foam the particular ability of forming an aqueous film on the surface of hydrocarbons, and a thick layer that interposes between polar solvents (alcohols, ethers, cetones) and the foam blanket interrupting the emission of vapours destructive for traditional foams.

## Principle of Operation

Thanks to its polyvalence, **PROFILM AR** can be used for extinguishing either hydrocarbon fires, benefiting from its film forming capacity to achieve rapid fire knock down, or difficult oxygenated chemical substances, as well as for preventing emission of toxic and aggressive vapours.

## Induction Ratio

**PROFILM AR** is available in three versions:

- |       |   |
|-------|---|
| 6-6   | 6 % on hydrocarbon fires and 6 % on polar solvent fires   |
| 3-3   | 3 % on hydrocarbon fires and 3 % on polar solvent fires   |
| 3-6   | 3 % on hydrocarbon fires and 6 % on polar solvent fires   |
| - 6 % | (6 L foam concentrate + 94 L water = 100 L foam solution) |
| - 3 % | (3 L foam concentrate + 97 L water = 100 L foam solution) |

## Method of Application

**PROFILM AR** can be used in direct application (nozzle or monitor) on hydrocarbon fires, and in gentle (indirect) application on polar solvent fires.

## Field of Application

The alcohol-resistant foam concentrate **PROFILM AR** is mainly designed for use in:

- petrochemical industry
- chemical products storage areas
- petroleum plants
- fire brigades
- ports
- vessels for transport of chemical products

## General Characteristics

**PROFILM AR** is in conformity with all national and international standards and particularly with European standards EN 1568-1, 2, 3 and 4.

It can be used with fresh and sea water.

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

### Storage

**PROFILM AR** 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.

### Physico -Chemical Characteristics

foam concentrate	u.m.	3 & 6 %
density @ 20°C	kg/l	1.03±0.02
pH @ 20°C		6 - 9
viscosity @ 20°C	cPs	2000
pour point *	°C	- 5
undissolved solids	% V/V	0.2

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

### Typical Foam Properties

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

**PROFILM AR** tested in accordance with the EN 1568:3 and 4 gives the following typical properties:

foam solution	3%	6%
Expansion Ratio	7	7
25% drainage time	7'	10'