

PROFILM AR**All purpose AFFF (Aqueous Film forming Foam) Synthetic based****Use on Hydrocarbon and Polar Solvents fires
Low, Medium, High Expansion****Composition**

The all purpose AFFF foam concentrate "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.

Principles of operation

Thank to its polyvalence, PROFILM-AR can be used either for extinguishing hydrocarbon fires where it benefits from its great film forming qualities to succeed rapid fire knock down, or for extinguishing difficult oxygenated chemical substances, or for preventing emission of toxic and aggressive vapours.

Induction ratio

PROFILM-AR is available in two standard 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

- 6 % ==> 6 L foam concentrate + 94 L water = 100 L foam solution

- 3 % ==> 3 L foam concentrate + 97 L water = 100 L foam solution

* PROFILM-AR exists also in 3-6 version (3 % on hydrocarbon and 6 % on polar solvent fires)

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

Technical 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.

Physico-chemical characteristics

According to EN 1568: PROFILM-AR 6-6 PROFILM-AR 3-3

Foam concentrate

- | | | |
|----------------------------|------------------|------------------|
| • Specific gravity @ 20° C | 1.02 ± 0.02 kg/l | 1.02 ± 0.02 kg/l |
| • pH @ 20° C | 6.5 – 8.5 | 6.5 – 8.5 |
| • Viscosity @ 20° C | pseudoplastic | pseudoplastic |
| • Pour point * | ≤ - 5° C | ≤ - 5° C |
| • Undissolved solids | ≤ 0.1 % | ≤ 0.1 % |

| | | |
|---------------|-----|-----|
| Foam solution | 6 % | 3 % |
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|----------------------|----------|----------|
| • Low expansion | ≥ 8 | ≥ 8 |
| • 25 % drainage time | ≥ 12 min | ≥ 10 min |

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