

**PROFLEX AR****All purpose FFFP (Film Forming FluoroProtein based) foam liquid****Use on Hydrocarbon and Polar Solvents fires  
Low & Medium Expansion****Composition**

The all purpose FFFP foam concentrate "PROFLEX-AR" is composed of a special mixture of hydrolysed proteins associated with fluorocarbon surfactants, corrosion inhibitors, and special natural soluble polymers, which confer to the foam the outstanding ability of forming a film on the surface of hydrocarbon fuels, or a thick layer that interposes between polar solvents (alcohols, ethers, cetones) and the foam blanket causing to interrupt the emission of vapours destructive for traditional foams, while maintaining a high resistance to heat.

**Principles of operation**

The alcohol-resistant foam concentrate PROFLEX-AR combines the most remarkable qualities of the two types of foam liquids : rapid fire knock down of film-forming types resulting from their easy flow and quick spreading on the fires, with the security and burnback resistance of fluoro-protein types, on important petroleum fires. Moreover, its polyvalence enables its application on both hydrocarbon fuels and polar solvent fires.

**Induction ratio**

PROFLEX-AR is available in the standard version of :

- 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**

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

### Field of application

The all purpose foam concentrate PROFLEX-AR is principally used in:

- petroleum industry (refineries, petroleum plants, storage tank farms)
- chemical industry
- vessels for transport of chemical products

### Technical characteristics

PROFLEX-AR is in conformity with all national and international standards and in particular with European standards EN 1568-1, EN 1568-3 and EN 1568-4.

It can be used with fresh and sea water.

PROFLEX-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 :

Foam concentrate

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|-----------------------------|------------------|
| • Specific gravity at 20° C | 1.10 ± 0.02 kg/l |
| • pH @ 20° C                | 6.5 - 7.5        |
| • Viscosity @ 20° C         | pseudoplastic    |
| • Freezing point            | ≤ - 15° C        |
| • Undissolved solids        | ≤ 0.1 %          |

Foam solution	6 %
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Low expansion	≥ 7
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25 % drainage time	≥ 8 min
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