

PROVEX AR**All purpose Fluoroprotein foam liquid, NEWTONIAN****Use on Hydrocarbon and Polar Solvents fires
Low & Medium Expansion****Composition**

The alcohol-resistant foam concentrate "PROVEX-AR" is composed of a mixture of hydrolysed proteins, fluorocarbon surfactants, stabilising salts and corrosion inhibitors. Its specific formulation and alco-oleophobe characteristics result in production of an optimal foam blanket highly fluid, thanks to its newtonian properties (non-viscose), and extremely resistant to destructive action of polar solvents (alcohols, cetones, ethers, etc) as well as to hydrocarbon fuels.

Principles of operation

The foam produced by the all purpose foam liquid PROVEX-AR enables rapid extinction of fires originated from any nature of water soluble solvents or hydrocarbons. On account of its exceptional heat resistance PROVEX-AR is the most suitable foam for protection of large petroleum plants and petrochemical installations, where the risk of fire propagation is very high. On the other hand, the polyvalence of use (adapted to polar solvents as well as to hydrocarbon fuels) facilitates use of one only type of foam concentrate for protection against all types of fire risks ; thus minimizing the stored quantity of foam and eliminating the possible mistakes in the choice of the foam concentrate to be used during interventions.

Induction ratio

PROVEX-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

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

Method of application

PROVEX-AR can be used in direct application (nozzle or monitor) on hydrocarbon fires, while it is recommended for gentle (indirect) application on polar solvent fires in order to achieve a successful and rapid fire knock-down.

Field of application

The all purpose foam concentrate PROVEX-AR is designed for protection of :

- petrochemical complexes
- chemical industry and plants
- petroleum plants
- petroleum areas
- vessels specialized in transport of chemical products

General characteristics

PROVEX-AR is in conformity with all national and international standards and particularly with European standards EN 1568-1, EN 1568-3 and EN 1568-4.
It can be used with fresh and sea water.

PROVEX-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:	PROVEX-AR 6-6	PROVEX-AR 3-3
Foam concentrate		
• Specific gravity @ 20° C	1.15 ± 0.02 kg/l	1.15 ± 0.02 kg/l
• pH @ 20° C	6.5 – 7.5	6.5 – 7.5
• Viscosity @ 20° C	12 ± 5 mm ₂ /s	14 ± 5 mm ₂ /s
• Pour point	≤ - 15° C	≤ - 15° C
• Undissolved solids	≤ 0.1 %	≤ 0.1 %
Foam solution		
	6 %	3 %
• Low expansion	≥ 7	≥ 7
• 25 % drainage time	≥ 6 min	≥ 5 min