



## TECHNICAL DATA SHEET

# PROVEX AR All-purpose FluoroProtein foam liquid

Use on Hydrocarbon and Polar Solvents fires Low & Medium Expansion

### Composition

The all-purpose 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-viscous), as well as extremely resistant to destructive action of polar solvents (alcohols, ketones, ethers, etc.) and hydrocarbon fuels.

### Principle 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 critical.

On the other hand, the polyvalence of use (adapted to polar solvents as well as to hydrocarbon fuels) facilitates use of one only 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:

- 3-3      3 % on hydrocarbon fires and 3 % on polar solvent fires
- 6-6      6 % 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

**PROVEX 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 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, 3 and 4.

**PROVEX AR** 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.

Rev. Nov 2012

This information is only a general guideline. PROFOAM reserves the right to modify any specification without prior notice.

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#### Storage

**PROVEX 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	1.15 ± 0.02
pH @ 20°C		6 - 8
viscosity @ 20°C	cPs	≤ 100
pour point *	°C	≤ - 15
undissolved solids	% V/V	≤ 0.2

#### Typical Foam Properties

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

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

foam solution	3%	6%
Expansion Ratio	≥ 6	≥ 7
25% drainage time	≥ 3'30"	≥ 5'

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