

# 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 PROFLEX AR foam concentrate 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 helping interrupt the emission of vapours, while maintaining a high resistance to heat.

## Principle of Operation

The alcohol-resistant foam concentrate PROFLEX AR is ideal for use on important petroleum fires. It combines the most remarkable qualities of different types of foams: rapid fire knock down of film-forming type, resulting from their easy flow and quick spreading ability on fire, with the outstanding burnback resistance of fluoro-protein type. Moreover, its polyvalence allows its application on both hydrocarbon fuels and polar solvent fires.

## Induction Ratio

PROFLEX AR is available in two standard versions:

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

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

## General Characteristics

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



Storage

PROFLEX 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	1.10 ± 0.02
pH @ 20°C		6 - 7.5
viscosity @ 20°C	cPs	700 - 1500
pour point *	°C	- 15
undissolved solids	% V/V	0.2

Typical Foam Properties

The foam properties of PROFLEX AR vary depending on the performance characteristics of foam equipment used and the operating conditions. PROFLEX AR tested in accordance with the EN 1568:3 and 4 gives the following typical properties:

foam solution	3%	6%
Expansion Ratio	6	6
25% drainage time	4'	6'

