

## PROFLEX Film Forming FluoroProtein based foam concentrate

For use on Hydrocarbon fires - Low & Medium Expansion

### Composition

**PROFLEX** is composed of a special mixture of hydrolysed proteins associated with fluorocarbon surfactants, giving the foam the distinguished property of forming a film on hydrocarbon's surface; and at the same time maintaining a high burnback resistance.

### Principle of Operation

**PROFLEX** 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 on critical hydrocarbon fires of petroleum industry.

### Induction Ratio

**PROFLEX** is available in two standard versions:

- 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

The foam liquid **PROFLEX**, owing to its film forming qualities, can be used either in direct application (nozzle or monitor), or in base injection with fixed installation, as well as in spray application with cooling nozzles and sprinklers.

### Field of Application

**PROFLEX** is mostly recommended for use in:

- refineries
- petroleum tank farms
- petroleum plants
- loading platforms
- site yards and machinery room

### General Characteristics

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

**PROFLEX** properties do not change in case of frost. It recovers its initial properties as soon as it is defrosted.

### Storage

**PROFLEX** 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	mm <sup>2</sup> /s	12
pour point *	°C	- 15
undissolved solids	% V/V	0.2

Typical Foam Properties

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

**PROFLEX** tested in accordance with the EN 1568:3 gives the following typical properties:

foam solution %	3%	6%
Expansion Ratio	6	6.5
25% drainage time	2'30"	2'30"

