TECHNICAL DATA SHEET

PROFLON FP FluoroProtein foam concentrate

FluoroProtein (FP) foam concentrate
For use on Hydrocarbon fires - Low & Medium Expansion

Composition

This Formulation contains only telomer-based fluorosurfactants with a short chain (C6 or below) that cannot degrade in the environment into PFOA or other PFCA's.

IMPORTANT:
C6 telomer-based fluorosurfactants are NOT bioaccumulative or toxic to the environment.

PROFLON FP foam concentrate is a special composition of hydrolysed proteins, fluorocarbon surfactants and corrosion inhibitors, providing an excellent heat resistant foam blanket.

Principle of Operation

The foam formed by PROFLON FP rapidly extinguishes very large fires, thanks to its remarkable stability and fluidity, even in the presence of overheated metal structures within a fire.

Induction Ratio

PROFLON FP is available in two standard versions:

- 6 % dilution: 6 L foam concentrate + 94 L water = 100 L foam solution
- 3 % dilution: 3 L foam concentrate + 97 L water = 100 L foam solution

Method of Application

PROFLON FP can be used either in direct application (nozzle or monitor), in base injection with fixed installation and with any other direct or indirect foaming equipment.

Fields of Application

PROFLON FP is principally used in:


Refineries


Fuel tank farms


Petroleum Plants


Fuel Loading Platforms


Boilers houses and plant rooms

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General Characteristics

PROFLON FP conforms to all national and international standards and particularly to European standards EN 1568-1 and 3.

PROFLON FP can be used with fresh and sea water.

PROFLON FP properties are not impaired in case of freezing. It recovers its initial properties as soon as it is defrosted.

Storage and Shelf-life

PROFLON FP has a long shelf life if stored properly in the original intact and unsealed packaging. Its shelf life may exceed 10 years if maintained correctly. As with all foam liquids, storage temperature and conditions are important factors for an optimal shelf life.

If the product is frozen during storage or transport, gentle thawing will render the product completely usable and without any impairment of its properties.

PROFLON FP is recommended to be stored 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^2/s	≤ 12
pour point	°C	≤ - 15
undissolved solids	% V/V	≤ 0.2

Typical Foam Properties

The foam properties of PROFLON FP vary depending on the performance characteristics of foaming equipment used and the operating conditions.

PROFLON FP 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	≥ 4’	≥ 4’30’’

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