



## PROFREE F3-AR (Alcohol Resistant Fluorine Free Foam)

**All-Purpose Fluorine-Free Foam concentrate**  
**Use on Hydrocarbon and Polar Solvents fires Low, Medium, High Expansion**

### Composition



The foam concentrate **PROFREE F3-AR** is based on a new FLUORINE-FREE formulation of synergetic surfactants and foam stabilisers, enabling to achieve highly plastic and remarkably fluid foam, extremely resistant to destructive effects of oxygenated substances (alcohols, cetones, ethers, etc.).

**PROFREE F3-AR** is totally free from fluorinated surfactants.

### Principle of Operation

**PROFREE F3-AR** is a foam concentrate designed for use at low, medium and high expansion.

Thanks to its polyvalence, **PROFREE F3-AR** can be used for extinguishing both hydrocarbon and polar solvents fires.

At low expansion, its best use is to fight various types of fires encountered by fire-services men daily.

The foam produced by **PROFREE F3-AR** in mechanical Hi-Ex generators allows total flooding of large volumes. It is most suitable for protection of hangars and various chemical products storage warehouses.

### Induction Ratio



**PROFREE F3-AR** is available in a single version, and can be used at concentrations from 3 to 6 %.

## Method of Application

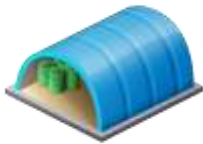


**PROFREE F3-AR** can be used with variety of generators:

- Low expansion (1 to 20:1)
- Medium expansion (20:1 to 200:1)
- High expansion (200:1 to 1000:1)

## Fields of Application

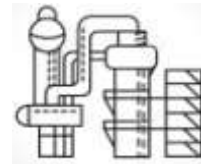
**PROFREE F3-AR** is designed for protection of:



- Big Capacity warehouses



- Chemical product plants



- Distilleries

## General Characteristics

**PROFREE F3-AR** is in conformity with all national and international standards, and particularly with European standards EN 1568-1, 2, 3 and 4.

**PROFREE F3-AR** can be used with fresh and sea water.

**PROFREE F3-AR** properties do not change in case of frost. It recovers its initial properties as soon as it is defrosted.

## Storage and Shelf-life



**PROFREE F3-AR** has a long shelf life if stored properly in the original unbroken 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, thawing will render the product completely usable.

**PROFREE F3-AR**, like other synthetic foam concentrates, is recommended to be stored in stainless steel or plastic containers. Furthermore, since electrochemical corrosion can occur at joints between different metals when they are in contact with the foam liquid, the best is to use the same type of material for tanks, pipelines and fittings used for the storage of the foam concentrate.

We recommend following our guidelines to ensure optimal storage conditions.

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

page 2 of 3



**Physico-Chemical Characteristics**

<b>foam concentrate</b>	<b>u.m.</b>	<b>3 %</b>
density @ 20°C	kg/l	1.04 ± 0.02
pH @ 20°C		6,5 - 9
viscosity @ 20°C	cPs	1000 - 1500
Surface tension	mN/m	25 ± 2
pour point	°C	≤ - 10
undissolved solids	% V/V	≤ 0.2

**Typical Foam Properties**

The foam properties of **PROFREE F3-AR** vary depending on the performance characteristics of foam equipment used and the operating conditions.

**PROFREE F3-AR**, tested in accordance with the EN 1568:3 and 4 gives the following typical properties:

<b>Foam solution</b>	<b>Low Expansion</b>	<b>Medium Expansion</b>	<b>High Expansion</b>
Expansion ratio	≥ 8	≥ 60 *	≥ 700 *
25% Drainage time	≥ 10'	≥ 7'	≥ 7'

\* The value of the Expansion Ratio depends on the foam generator used.