

## Description

FOREDE® Alcohol Resistant Flouoroprotein Foam Concentrate(AR-FP) 3% is a flouoroprotein foam concentrate containing flourinated surfactants in a carefully formulated protein foam liquid base. This ensures the production of stabilised fluid foam which will cover a burning hydrocarbon fuel or polar fuel surface rapidly. The water soluble fluorosurfactants makes the foam stable on water miscible fuels, e.g. like alcohols, ketones etc. It also make the foam repellent and reduce the amount of burning particles absorbed by the foam during the fire fighting process on hydrocarbon fuels. Once the fire extinction has been achieved the high stability of the foam blanket ensures against the risk of re-ignition and provides excellent protection against burn.



The main advantage of FOREDE® AR-FP is the 3% induction ratio on ALL class B fires, including polar solvents, in fresh or seawater. Characteristics for film forming foam are that it spreads rapidly across a fire. As a result, it is highly effective against hydrocarbon fires. Adding special polymers ensures it is also highly effective against polar solvents.

## Application Forede

FOREDE® AR-FP 3% is intended for use on class B hydrocarbon fuel fires such as oil, diesel and aviation fuels and polar fuels like alcohols, esters, ketones etc. FOREDE® AR-FP 3% can be applied directly onto the fire surface and is also suitable for sub surface injection. It is compatible with all dry chemical powders and can be used in powder/foam twin agent systems.

## Fire Performance & Foaming

FOREDE® AR-FP 3% has been designed to give the best properties of:

- Flouoroprotein Foam
- Alcohol Resistant Foam

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion ratio  $7.5 \pm 1$ , average  $\frac{1}{4}$  drainage time 6.1 ( $1 \pm 20\%$ ) minutes under testing.

## Proportioning

FOREDE® AR-FP 3% can easily be proportioned at the correct dilution using conventional equipment such as:

- Inline inductors
- Balanced pressure, variable flow proportioning systems
- Foam Bladder tanks
- Around the pump proportioning systems

- Water turbine driven foam proportioners
  - Mobile Equipments
  - Self inducing branch pipes, nozzles and monitors
- The equipment should be designed to the foam type.

## Compatibility

Contact one of the Forede sales team with questions.

## Technical data

<b>Appearance</b>	Dark brownish liquid
<b>pH</b>	7.0~7.3
<b>Expansion Ratio</b>	7.5
<b>25% Drainage Time</b>	6.1 min
<b>Freezing point</b>	-24°C

## Environmental impact

FOREDE® AR-FP 3% is formulated using raw materials specially selected for their fire performance and their environmental profile. FOREDE® AR-FP 3% is biodegradable. The handling of spills of concentrate or foam solution should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted in this respect.

## Storage / Shelf life

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing render the product completely usable.

## Packaging

We supply this product in 25 liter cans, 50 liter drums and 200 liter drums, 1000 liter IBC containers or in bulk available.

- 25L drum, 24 drums/ pallet,
- 480 drums/ 20' FCL, 792 drums/ 40' FCL
- 200L drum, 4 drums/ pallet,
- 80 drums/ 20'FCL, 132 drums/ 40' FCL

Liter Per Piece	Packaging	Approx Shipping Weight
25 Liters	Plastic Can	27 kg
50 Liters	Plastic Drum	55 kg
200 Liters	Plastic Drum	210 kg
1000 Liters	IBC Container	1100 kg

## Approvals

CCC & ISO9001