

Description

FOREDE® Synthetic Multi Purpose AR-S 3% is a new generation of high performing, multi-purpose foam concentrate. It is consisting of fluorocarbon and hydrocarbon surfactant blended with various solvents, preservatives and stabilizers. FOREDE® AR-S 3% mixed with water and converted into finished foam via low expansion foam making equipment combats fires by engulfing the area, restricting the supply of oxygen, cooling of the liquid surface, and the suppression of flammable gases evaporating from the hot liquid surface.. FOREDE® AR-S 3% should be used at 6% proportioned solution (6 part concentrate in 94 parts of water) in brackish, fresh or sea water. It may also be stored as a premix solution in fresh water.



Application

FOREDE® AR-S 3% is a multi purpose foam which can be used at low expansion for the extinguish of class B hydrocarbon fires such as small fuel spills (low & medium expansion), protection of building areas (medium expansion), and it can also be used for the control and extinction of cryogenic flammable liquid fires or vapour release from toxic spillage. At medium and high expansion, FOREDE® AR-S 3% can be used for total flooding of fires involving class A and class B materials. Medium expansion type is particularly suitable for small areas such as cellars and basements of buildings and high expansion type for large areas such as ship cargo or engine rooms. It is especially suitable for dealing with fires in inaccessible locations and damage must be kept to a minimum.

Fire Performance & Foaming

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. Has been tested to and found to comply with Last fire Protocol with good results. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion ratio 76.5 ± 1 , average $\frac{1}{4}$ drainage time 12.0 ($1 \pm 20\%$) minutes under testing.

Proportioning

FOREDE® AR-S 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
 - 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

Appearance	Clear yellowish liquid
pH	7.4~7.6
Expansion Ratio	7 ($1 \pm 20\%$)
25% Drainage Time	11.1 ($1 \pm 20\%$) min
Freezing point	-35°C

Environmental impact

FOREDE® AR-S 3% is formulated using raw materials specially selected for their fire performance and their environmental profile. FOREDE® AR-S 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 will render the product completely usable. Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electronic chemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates.

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