FFFP ARC 3x3 NV Avalanche
FOAM CONCENTRATE

Description

Fomtec FFFP ARC 3x3 NV Avalanche is a high efficiency multipurpose alcohol resistant film forming fluoro protein foam (3x3) concentrate.

Fomtec Avalanche is a liquid based on environmentally friendly natural protein and does not contain any polymer that makes general AR type foam concentrates viscous. Its high fluidity makes the induction easier and accurate through both portable and fixed inline proportioners even at extremely low temperatures (-18 C).

The advantage of Fomtec Avalanche is the 3% induction ratio on all class B fires including polar solvents in fresh or seawater.

The low surface tension of the water foam concentrate solution enables the aqueous film, although heavier than the burning liquid, to float on top of the hydrocarbon fuel surface.

The specially selected fluorocarbon surfactants 'seal' the bubbles against attack from polar solvents and also provide a highly effective floating foam layer on top of the polar solvents.

Application

Fomtec Avalanche is intended for use on class B hydrocarbon fuel as well as on polar solvent i.e Isopropanol, Methanol etc and other foam destroying product fires such as MTBE. Typical applications are bulk storage tank protection, process areas, power stations, marine terminals, municipal fire departments, offshore platforms etc. It is compatible with all dry chemical powders.

Typical Performance

Fomtec Avalanche has been designed to give the best properties of

- Aqueous film forming foam.
- Alcohol resistant foam.
- Fluoro protein foam.

The fire performance of Fomtec Avalanche has been tested according to EN 1568 parts 3 and 4.

Equipment & Proportioning

Fomtec Avalanche can easily be proportioned at the correct dilution using conventional equipment such as:

- Inline inductors.
- Balanced pressure, variable flow proportioning systems.
- Bladder tanks.
- Around the pump proportioning systems.
- Water turbine driven foam proportioners.
- Self inducting branch pipes and nozzles.

The equipment should be designed to the foam type.

Fomtec Avalanche can be used with a wide variety of air aspirating discharge devices such as monitors, foam chambers, foam top pourers, foam/water sprinklers. It may also be used with non-aspirating devices such as spray nozzles and sprinklers on shallow fires where a stable foam cover is not essential

Optimal performance is obtained through gentle application, but will also function through forceful application on large hydrocarbon fires such as storage tank fires. Avalanche can also generate medium expansion foam.

Technical data

Appearance	**Dark brown Liquid**
Specific gravity @20°C	**1.18 +/- 0.01 g/ml**
Brookfield Viscosity approx @ 20°C	**<18 mPa.s**
pH	**7.0 +/- 1.0**
Undissolved solids (v/v)	**Less than 0.1 %**
Freezing point	**- 20°C**
Pour point	**- 19°C**
Surface tension approx	**< 20.0 mN/m**

Compatibility

Fomtec Avalanche can be used with soft, hard, brackish and salt water. It is compatible with all dry chemical powders.

Storage/Shelf Life

Stored in original unbroken packaging the product will have a long shelf life. The recommended storage temperature range of Fomtec Avalanche ranges from -19°C to 50°C. 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.

Foam concentrates should only be stored in stainless steel or plastic containers. Since electromagnetic 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 Fomtec in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

International Approvals

EN 1568 Parts 3 & 4 Class 1A

Bureau Veritas, Marine Approval