

AFFF ARC 1x1 NV (Newtonian) FOAM CONCENTRATE

Description

Fomtec AFFF ARC 1x1 NV is an ultra high efficiency multi purpose film forming foam concentrate liquid.

The 1x1 NV is a newtonian liquid based on specially selected hydrocarbon / fluorocarbon surfactants and does not contain any polymer that makes general ARC type foam concentrates viscous. Its high fluidity makes the induction easier and accurate through both portable and fixed inline proportioners even at low temperatures.

The advantage of Fomtec AFFF ARC 1x1 NV is the 1% induction ratio on all class B fires including polar solvents in fresh or sea water.

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 foam bubbles against attack from polar solvents and also provide a highly effective floating foam layer on top of the polar solvents.

Application

Fomtec AFFF ARC 1x1 NV is intended for use on class B hydrocarbon fuel as well as on polar solvent i.e Isopropanol, Methanol etc and other foam destroy-ing product fires such as MTBE. It can be used with both aspirating and non-aspirating discharge devices. 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 AFFF ARC 1x1 NV has been designed to give the best properties of

- Aqueous film forming foam.
- Alcohol resistant foam.

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

Proportioning

Fomtec AFFF ARC 1x1 NV 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 inducing branch pipes and nozzles.

The equipment should be designed to the foam type.

Technical data

Appearance	Light amber Liquid
Specific gravity @20°C	1.06 +/- 0.01 g/ml
Brookfield Viscosity approx @ 20°C	<100 cs
pH	7.5 +/- 1.0
Undissolved solids (v/v)	Less than 0.2 %
Freezing point	-16 °C
Pour point	-14 °C
Surface tension approx	< 20.0 mN/m

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 -8°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 part 3 and 4.
- Lloyds Register of Shipping.