

Description

Fomtec ARC 1x3 is an ultra efficiency multi purpose film forming foam (1x3).

The main advantage of Fomtec ARC 1x3 is the 1% induction ratio on hydrocarbon fires and 3% on polar solvents.

The film forming characteristics of Fomtec ARC 1x3 means that it spreads rapidly across a fire. As a result, it is highly effective against hydrocarbon fires and with the addition of special polymers it is also highly effective against polar solvents

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 liquid surface.

When applied on polar solvents a polymeric membrane makes it possible for the foam blanket to extinguish effectively. This works also on foam destroying liquids such as MTBE.

Fomtec ARC 1x3 should be used at 1% proportioned solution on regular hydrocarbon fires and 3% on polar solvents, in fresh or seawater.

Application

Fomtec ARC 1x3 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. It uses only 1/3 the quantity to extinguish regular hydrocarbon fires in comparison to traditional 3X3 foam concentrates and only 3% on polar solvent fires. It can be used with both aspirating and non-aspirating discharge devices. It is compatible with all dry chemical powders.

Typical Performance

Fomtec ARC 1x3 has been designed to give the best properties of

- Aqueous film forming foam.
- Alcohol resistant foam.

The fire performance of Fomtec ARC 1x3 has been tested according to EN1568 part 3 & 4.

Proportioning

Fomtec ARC 1x3 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.

Technical data

Appearance	Clear yellow Liquid
Specific gravity @ 15.6°C	1.03 +/- 0.01 g/ml
Brookfield Viscosity approx @ 20°C	1700 mPa.s
pH	7.5 +/- 1.0
Undissolved solids (v/v)	Less than 0.2 %
Storage temperature (minimum)	0 °C
Surface tension approx	17.5 dynes/cm

Storage/Shelf Life

Stored in original unbroken packaging the product will have a long shelf life. The recommended storage temperature range of Fomtec ARC 1x3 is from 0 °C to 55°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.

Synthetic 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.