

Description

Fomtec ARC 1x3 Ultra is a high efficiency multi purpose film forming foam (1x3). The main advantage of Fomtec ARC 1x3 Ultra is the 1% induction ratio on hydrocarbon liquids and 3% on 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.

The low surface tension of the water foam concentrate solution enables the aqueous film, which is 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.

Application

Fomtec ARC 1x3 Ultra is intended for use on class B hydrocarbon fuel as well as on polar solvent e.g. Isopropanol, Methanol and other foam destroying fuels 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.

Fire Performance & Foaming

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

- Aqueous film forming 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 and drainage time stated below are when using UNI 86 test nozzle.

Concentrate	1%	3%
Average Expansion 25 litres	5:1	8:1
Average ¼ drainage time 200 litres (minutes)	3:00	16:00

Proportioning

Fomtec ARC 1x3 Ultra 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.

Compatibility

Contact one of the Fomtec sales team with questions.

Technical data

Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,01 +/- 0.01 g/ml
Viscosity at 20°C	≤ 2400 mPas
pH	6,1 – 7,1
Freezing point	-2°C
Recommended storage temperature	-2 - 55°C
UL-listed storage temperature*	1,7 - 49°C
Suspended sediment (v/v)	Less than 0,2%
Surface tension (for 1% concentrate)	≤ 17,0 dynes/cm

**This product is tested according to UL-standard and has passed the specific circumstances in the test.*

Environmental impact

Fomtec ARC 1x3 Ultra is formulated using raw materials specially selected for their fire performance and their environmental profile. Fomtec ARC 1x3 Ultra is biodegradable. The handling of spills of concentrate or foam solutions 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. This product contains NO PFOS or PFOA.

Full details will be found in the Material Safety Datasheet (MSDS).

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 electrochemical 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. We recommend following our guidelines for storage and handling ensuring favourable storage conditions.

Packaging

We supply this product in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

Litres per piece	Packaging	Part no
25 litres	Can	12-1322-01
200 litres	Drum	12-1322-02
1000 litres	Container	12-1322-04
Bulk	Special request	

International Approvals

- UL 162 7th Edition
- ULC listed