

Description

Fomtec Alpha R is a ready-to-use alcohol resistant foam solution. Reliable fire performance is obtained on all kinds of fuels. On polar liquid fires, Fomtec Alpha R forms a polymeric layer which protects the foam against destruction. On nonpolar fuels an aqueous film is formed (AFFF-effect).

Fomtec Alpha R has been designed to have a much longer shelf life than normal AFFF premix solutions. It is also an alcohol resistant foam solution that is stable for storage, unlike normal premixes made from ARC foams. It is a freeze protected foam solution, enabling foam systems to operate in areas with temperatures down to -20 °C.

Application

Fomtec Alpha R spreads over the surface of a polar liquid and forms a polymeric film which protects the foam from the solvent and allows an insulating foam layer to accumulate. Normal AFFF-AR premixes have a very limited shelf life. Fomtec Alpha R is stable for several years. On spills or large fires of hydrocarbon fires an aqueous film forms on the surface of the fuel. The spreading film covers rapidly the fuel and prevents hydrocarbon evaporation. The foam above the film also provides an excellent burnback resistance.

Fomtec Alpha R is intended for use on class A and B fires. It can be used with both aspirating and non-aspirating discharge devices. It is compatible with all dry chemical powders.

Fomtec Alpha R can be used in:

- Fire extinguishers
- Foam systems

The equipment should be designed to the foam type.

Best fire performance on polar liquid fires is obtained with an expansion ratio between 8 and 150 l/kg.

Fire Performance & Foaming

Fomtec Alpha R -20 has been designed to give the best properties of:

- Aqueous film forming foam.
- Alcohol resistant foam
- Class A fire extinguishing agent

The fire performance of this product has been measured and documented according to "Technical data" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 7,5:1, average ¼ drainage time 25:00 minutes using UNI 86 test nozzle.

Compatibility

Contact one of the Fomtec sales team with questions.

Technical data

Appearance	Clear yellow liquid
Specific gravity at 20°C	1,030 +/- 0.01 g/ml
Viscosity at 20°C	≤ 30 mPas
pH	6,5 – 8,5
Freezing point	-20°C
Recommended storage temperature	-20 - 55°C
Suspended sediment (v/v)	Less than 0,2%
Surface tension	≤ 18,0 dynes/cm

Environmental impact

Fomtec Alpha R -20 is formulated using raw materials specially selected for their fire performance and their environmental profile. Fomtec Alpha R -20 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.

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 of at least 5 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	14-0009-01
200 litres	Drum	14-0009-02
1000 litres	Container	14-0009-04
Bulk	Special request	