FOMTEC® Alpha R -20

Alcohol resistant film forming ready-to-use premix

Fomtec©

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Fomtec Alpha R-20 is a ready-to-use (premixed) alcohol resistant film forming foam solution for fires of class A and B. Reliable fire performance is obtained on all kinds of fuels. On polar liquid fires, Fomtec Alpha R-20 forms a polymeric layer which protects the foam against destruction. On nonpolar fuels an aqueous film is formed (AFFF-effect).

- Short chain C6 Pure fluorochemistry
- Alcohol resistant premix ready to use
- Low freezing point -20°C
- Suitable for Class A and B fires
- Good storage stability

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DESCRIPTION

Unlike regular AFFF or ARC premixes, Fomtec Alpha R -20 has excellent storage stability in excess of 10 years under correct storage conditions. The product has superior fire performance on class A fires compared with regular AFFF premix solutions. Fomtec AR -20 is freeze protected to -20°C and can be used in extinguishers or systems that will be stored or installed in cold areas.

APPLICATION

Fomtec Alpha R -20 is intended for use on class B hydrocarbon fuel fires such as oil, diesel, gasoline and aviation fuels.
Fomtec Alpha R -20 is also intended for use on class B polar solvent fuel fires such as alcohols, ketones and ethers.
Fomtec Alpha R -20 is effective against class A fires such as wood, paper, textiles etc.
It can be used with both aspirating and non-aspirating discharge devices. It is compatible with all dry chemical powders.

Fomtec Alpha R -20 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 above 5:1.

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 6:1, average ¼ drainage time 25:00 minutes using UNI 86 test nozzle.

COMPATIBILITY

Fomtec Alpha R -20 can be used together with foam compatible powders and other expanded foams.
For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

TYPICAL DATA	
Appearance	Clear yellow liquid
Specific gravity at 20°C	1,040 +/- 0.01 g/ml
Viscosity at 20°C	≤ 30 mPas
Surface tension	≤ 18,0 dynes/cm
pH	6,5 – 8,5
Freezing point	-20°C
Recommended storage temperature	-20 - 55°C
Suspended sediment (v/v)	Less than 0,2%

ENVIRONMENTAL

Fomtec Alpha R-20 is formulated using raw materials specially selected for their fire performance and their environmental profile. All raw materials are registered in European REACH-database. Fomtec Alpha R -20 is non-toxic, biodegradable and each individual component is fully tested and documented. Fomtec only use C6 Pure fluorosurfactants in our Alpha formulations. Our film forming products contains no PFOS or PFOA in accordance with US EPA Stewardship Program 2010/15 and EU Directive 2017/1000. More details can be found in the Material Safety Datasheet (MSDS).
The disposal of spills of concentrate or premix foam solution should be made in accordance with local regulations. For more detailed information please consult our Fomtec Technical Advices FTA 40.

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.
For storage recommendations and material compatibility please refer to our Fomtec Technical Advices FTA 10 addressing the topic.

INSPECTION/TESTING/ MAINTENANCE

The foam premix solution should be tested annually. The testing should be made by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568 or IMO MSC.1Circ. 1312.
Storage containers should be inspected and reevaluated for the suitability of the storage location regarding temperature fluctuations (temperature should be as stable as possible).
Exposure to direct sunlight should be avoided.

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PACKAGING

We supply this product in 25 litre or 5 US gallon cans, 200 litre or 55 US gallon drums, and 1000 litre or 265 US gallon IBC containers. Larger bulk supply is available against on special request.

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (mm) L x W x H
25 ltr	Can	14-0009-01	27,1 kg	295 x 260 x441
200 ltr	Drum	14-0009-02	216,5 kg	581x 581 x 935
1000 ltr	Container	14-0009-04	1100 kg	1200 x1000 x1150
Bulk	Special request	14-0009-XX		

** including packaging.*

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