FOMTEC® ENVIRO AIR

Fluorine Free Foam Concentrate



Fomtec®

ENVIRO AIR



FOMTEC ENVIRO AIR

Fomtec Enviro AIR is a novel fluorine free firefighting foam totally free from fluorinated surfactants and polymers (PFAS). Fomtec Enviro AIR is designed to be an effective fluorine free alternative to PFAS based AFFF foam concentrates.

- New Generation fluorine free foam
- High performance foam concentrate for Aircraft Rescue and Fire Fighting (ARFF)
- ICAO Level B
- Low viscosity

Fomtec® is a trademark of Dafo Fomtec AB

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DESCRIPTION

Fomtec Enviro AIR is a novel fluorine free firefighting foam totally free from fluorinated surfactants and polymers.
Fomtec Enviro AIR is especially designed to be an effective fluorine-free alternative for Aircraft Rescue and Fire Fighting (ARFF), fighting class B fires in aviation Kerosine jet fuel such as Jet A 1. Fomtec Enviro AIR should be used at 3% with fresh water for low expansion equipment such as monitors and handlines.
Enviro AIR can be used as a training foam when used at 1% mixing ratio. Typical foam quality values at this induction ratio is expansion ratio about 5 and 25% drain time about 2:30. With this concept the training foam can also be used as back-up foam in case of shortage and used as intended at 3% mixing ratio. Note that ICAO Level B compliance cannot be reached at 1% induction ratio, but yield a foam quality good enough for training

APPLICATION

Fomtec Enviro AIR is intended for use on class B hydrocarbon fuels and is especially effective against fires in Kerosene fuels.
Fomtec Enviro AIR is especially suited whenever a fluorine-free alternative with low viscosity is desired.
Suitable for mobile firefighting by use of aspirating foam discharge devices such as foam branchpipes and monitors, where application rates and technique can be adjusted to the specifics of each incident. Or in systems designed for use with the product based on recommended minimum applications rates, application duration and discharge devices. It is compatible with all dry chemical powders and can be used in powder/foam twin agent systems.

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The design parameters depend on type of system and application. The use of the product should follow design guidelines. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 8:1, average ¼ drainage time 6:00 minutes using UNI 86 test nozzle.

EQUIPMENT

Fomtec Enviro AIR can easily be proportioned at the correct dilution using conventional proportioning equipment.
The equipment should be designed to the foam type.

COMPATIBILITY

Fomtec Enviro AIR can be used together with foam compatible powders and other expanded foams.
Fomtec Enviro AIR concentrate should not be mixed with other foam concentrates.
For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

TECHNICAL DATA	
Appearance	Clear to yellowish liquid
Specific gravity at 20°C	1.04 ± 0.01 g/ml
Viscosity 20°C	20 mPas
pH	6.5 – 8.5
Freezing point	- 8°C
Recommended storage temperature	-8°C to 55°C
Suspended sediment (v/v)	Less than 0.2%

** See detailed viscosity data below*

ENVIRONMENTAL

Fomtec Enviro AIR is formulated using raw materials specially selected for their fire performance and their environmental profile. The product contains no intentionally added fluorinated surfactants and polymers and other organohalogens. Fomtec Enviro AIR is biodegradable and contains no PFOS or PFOA. 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.
Full details will be found in the Material Safety Datasheet (MSDS).
For more detailed information please consult 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 concentrate should be tested annually. The testing should be made by a suitable laboratory for analysis of foam concentrates and should measure: pH, specific gravity, expansion, drainage time.
Storage containers should be inspected and reevaluated for the suitability of the storage location in regard to temperature fluctuations (temperature should be as stable as possible).
Exposure to direct sunlight should be avoided.

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APPROVALS & LISTINGS

ICAO Level B (ICAO Airport Service Manual, part 1, chapter 8, fourth edition, 2015 level B)



PACKAGING

We supply this product in various pack sizes and can supply in bulk on special request.

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (cm) L x W x H
25 Liter	Can	11-6200-01	27.2 kg	295 x 260 x 441
200 Liter	Drum	11-6200-02	216.5 kg	581 x 581 x 935
1000 Liter	Container	11-6200-04	1100 kg	1200 x 1000 x 1150
Bulk	Special request			

**including packagin*

ENVIRO BY FOMTEC

The Fomtec Enviro range comprises an extensive range of non-PFAS based foams suitable for use Emergency Response missions and System applications. Enviro foam concentrates are available for class A, class B fire hazards and products are available for low, medium, and high expansion discharge devices.

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