



Fomtec Enviro USP

Fomtec Enviro USP is a novel fluorine free firefighting foam totally free from fluorinated surfactants and polymers.

Fomtec Enviro USP is especially designed to be an effective fluorine-free alternative for sprinkler systems, type II and III discharge devices.

Fomtec Enviro USP can be used at 2% with fresh water for low, medium and high expansion discharge devices. For sprinkler systems it should be used in 3% proportioning. For use on class A type fires induction ratio of 0.5-1% is recommended depending on application and discharge device. Not intended for use with sea water.

Features

- New Generation Fluorine Free Foam
- Approved for sprinkler, UL 162 Listed
- Superior Fire Performance: Rate 1A, EN 1568 Part 3
- ICAO Level B
- For Class A & B fires
- 100% Biodegradable
- Low, Medium & High Expansion

**fomtec**
Fire Fighting Foams & Equipment

Application

Fomtec Enviro USP is intended for use on class B hydrocarbon fuel fires such as oil, diesel and aviation fuels as well as class A fires such as wood, paper, textiles etc.

Fomtec Enviro USP is especially suited whenever a fluorinefree alternative with high fire performance is required.

Approved for use in sprinkler systems as per UL listing. 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 7:1, average ¼ drainage time 25:00 minutes using UNI 86 test nozzle.

Equipment

Fomtec Enviro USP can easily be proportioned at the correct dilution using conventional proportioning equipment. The equipment should be designed to the foam type. Fomtec Enviro USP should be used with approved sprinklers or aspirating foam discharge devices giving an expansion of more than 7:1 for optimal performance.

Compatibility

Fomtec Enviro USP can be used together with foam compatible powders and other expanded foams.

It is only intended for use with fresh water.

Fomtec Enviro USP concentrate should not be mixed with other foam concentrates.

Sprinkler application

Sprinkler applications are especially challenging for any foam due to the very low operating pressure and the very low expansion reached. Applying foam through a sprinkler is a very forceful application method and requires foam that can handle direct application and partial submersion into the fuel without losing its fire performance and burnback resistance. Foams that shall be regarded as suitable for Sprinkler applications shall also be able to withstand limited time of water deluge directly onto the foam blanket without losing its burnback properties. Fomtec Enviro USP has passed these tests showing superior extinguishing and burnback properties.

Environmental

Fomtec Enviro USP is formulated using raw materials specially selected for their fire performance and their environmental profile. The product is totally free from fluorinated surfactants and polymers and other organohalogens, and therefore it does not contain any PFOS or PFOA. Fomtec Enviro USP is 100% 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. 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. For storage recommendations and material compatibility please refer to our technical dossier XXX addressing the topic.



Can 25 litres



Drum 200 litres



Container 1000 litres

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.

International Approvals

- Underwriters Laboratories, UL 162, 7th Edition, sprinkler
- EN 1568 Part 1, Pass
- EN 1568 part 2, Pass
- EN 1568 part 3, Class 1A fresh water
- ICAO Level B



Technical data

Appearance	Clear to yellowish liquid
Specific gravity at 20°C	1,04 ± 0.01 g/ml
Viscosity at 25°C spindle #4,60 rpm	1500 mPas
pH	6,5 to 8,5
Freezing point	-11°C
Recommended storage temp.	0 to 55°C
Suspended sediment (v/v)	Less than 0,2%