



Fomtec® Enviro ERS

FOMTEC Enviro ERS

Fomtec Enviro ERS is a fluorine free firefighting foam concentrate that has no intentionally added PFAS (fluorinated surfactants and polymers). Fomtec Enviro ERS is especially designed to be an effective fluorine-free alternative to PFAS based AFFF foam concentrates for the Fire & Rescue Services.

- New Generation Fluorine Free Foam
- UL 162 Listed
- For Class A & B fires
- 100% Biodegradable
- Low, Medium & High Expansion



DESCRIPTION

Enviro ERS can be used at 2% - 3% with fresh water for low, medium and high expansion discharge devices for use on Class B Hydrocarbon fuel fires.
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.

APPLICATION

Enviro ERS 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.
Enviro ERS is especially suited whenever a fluorine-free alternative with high fire performance is required.
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.

FIRE PERFORMANCE & FOAMING

The fire performance of Enviro ERS is in compliance with various "International Approvals" including UL 162.
Proportioning ratios and application densities vary according to the test standards.
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 ERS can easily be proportioned at the correct dilution using conventional proportioning equipment.
The equipment should be designed to the foam type.

COMPATIBILITY

Fomtec Enviro ERS can be used together with foam compatible powders and other expanded foams.
It is only intended for use with fresh water.
Fomtec Enviro ERS concentrate should not be mixed with other foam concentrates.
For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

ENVIRONMENTAL

Enviro ERS is formulated using raw materials specially selected for their fire performance and their environmental profile.
The product is totally free from fluorinated surfactants and

TYPICAL DATA

Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,04 ± 0,01 g/ml
Viscosity	Pseudoplastic*
pH	6,5 to 8,5
Freezing point	-11°C
Recommended storage temperature	0 to 55°C
Suspended sediment (v/v)	Less than 0,2%

*) See detailed viscosity data below

polymers and other organohalogens, and therefore it does not contain any PFOS or PFOA. Enviro ERS 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). 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.

APPROVALS AND LISTINGS

- Underwriters Laboratories, UL 162

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 special request.

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.

enviro
by fomtec

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (mm) L x W x H
25 ltr	Can	11-6001-01	26,7 kg	295 x 260 x 441
200 ltr	Drum	11-6001-02	212,5 kg	581 x 581 x 935
1000 ltr	Container	11-6001-04	1080 kg	1200 x 1000 x 1150
5 US gal.	Can	11-6001-00	20,58 kg	295 x 260 x 441
55 US gal.	Drum	11-6001-03	220,66 kg	581 x 581 x 935
265 US gal.	Container	11-6001-05	1083,6 kg	1200 x 1000 x 1150
Bulk	Special request			

* including packaging.

VISCOSITY DATA - FLOW CURVES

The viscosity flow curves are determined by Brookfield RST rheometer from low to high shear rates. The viscosity curves below are determined by calculating the average value of at least 8 different measurements and add a safety margin of three standard deviations to the average. The viscosity curves are determined for 20°C and 5°C. In the table below the kinematic viscosity (mm²/s) is calculated as dynamic viscosity (mPa·s) divided by the specific gravity of the concentrate.

Shear Rate (s ⁻¹)	Dynamic Viscosity (mPa·s) 20°C	Dynamic Viscosity (mPa·s) 5°C	Kinematic Viscosity (mm ² /s) 20°C	Kinematic Viscosity (mm ² /s) 5°C
10.7	3728	3505	3584	3370
21.5	1939	1884	1864	1811
53.7	903	884	868	850
107.4	542	514	521	494
214.8	329	312	317	300
375.0	226	220	217	211
537.0	177	182	170	175
1074.0	145	142	139	137
1611.0	86	97	83	93
2148.0	70	82	68	79
2792.2	88	117	85	113

