



Fomtec® Enviro eMax

FOMTEC Enviro eMax

Fomtec Enviro eMax is a new generation of high performance fluorine free alcohol resistant multipurpose foam concentrate that has no intentionally added PFAS (fluorinated surfactants and polymers). It consists of a novel blend hydrocarbon surfactants, blended with various solvents, and stabilizers. Fomtec Enviro eMax have been designed to be used as low, medium and high expansion. Fomtec Enviro eMax should be used at 2-3% proportioning in potable water.

- Fluorine Free Foam
- High Performance Multipurpose Alcohol Resistant foam
- Approved EN 1568 as Low and High Expansion Foam
- Tested by CNPP, T12 high expansion test standard
- Suitable for Hydrocarbon & Polar fuels



APPLICATION

Fomtec Enviro eMax is intended for use on class B hydrocarbon fuels such as oil, diesel, gasoline and aviation fuels, as well as polar fuels like acetone, isopropyl alcohol etc. Fomtec Enviro eMax can be used with all kinds on low, medium and high expansion devices.

Fomtec Enviro eMax is also effective against class A fires such as wood, paper, textiles etc at 0.5-1% proportioning.

Typical applications are high expansion foam systems in warehouses, process areas, aircraft hangars or other applications where three-dimensional fire can occur.

Suitable for mobile firefighting by use of low expansion aspirating foam discharge devices such as foam branchpipes and monitors. Or in systems designed for use with the product based on recommended minimum applications rates, application duration and discharge devices.

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average low expansion 8:1, average ¼ drainage time 9:30 minutes using UNI 86 test nozzle.

Used in Fomtec high expansion generators the below average values can be expected:

Generator	Expansion @ 4 bar
Fomtec Bele L	380:l
Fomtec Bele S 400	550:l
Fomtec Bele S 800	500:l

EQUIPMENT

Fomtec Enviro eMax can easily be proportioned at the correct dilution using conventional proportioning equipment.

The equipment should be designed to the foam type.

Fomtec Enviro eMax can be used with low, medium and high expansion foam generators.

COMPATIBILITY

Fomtec Enviro eMax is compatible potable water. It is compatible with foam compatible dry chemical powders as well as other expanded foam types. For mixability with other foam concentrates, please contact Fomtec. For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

ENVIRONMENTAL

Fomtec Enviro eMax 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 PFAS. The handling of spills of concentrate or

TYPICAL DATA

Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,04 ± 0,01 g/ml
Viscosity at 20°C	≤ 2500 mPas
pH	6,5 – 8,5
Freezing point	-8°C
Recommended storage temperature	-0°C – 55°C
Suspended sediment (v/v)	Less than 0,2%

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.

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	12-3365-01
200 litres	Drum	12-3365-02
1000 litres	Container	12-3365-04
Bulk	Special request	12-3365-xx

APPROVALS

- Qualified Products Listed (QPL) by US Forest Service in accordance to Forest Service Specification 5100-307a
- Tested by UL to the ASTM E1321 – Lateral Ignition & Flame Spread Apparatus Testing (LIFT TEST)
- Conforms to NFPA 18 and NFPA 1150 and NFPA 1145

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



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	2719	2766	2640	2686
21.5	1482	1535	1439	1491
53.7	684	717	664	696
107.4	393	418	382	406
214.8	236	253	229	245
375.0	157	174	152	169
537.0	123	138	120	134
1074.0	78	91	76	89
1611.0	62	72	60	70
2148.0	52	61	51	60

