



Fomtec® LS EXP

FOMTEC LS EXP

Fomtec LS EXP is a superior high expansion foam concentrate for use in any High expansion system. It is consisting of hydrocarbon surfactants blended with various solvents and stabilizers. It does not contain any fluorinated surfactants or polymers (PFAS) or other organohalogens. Fomtec LS EXP should be used at 2-3% concentration in fresh or sea water if medium or high expansion foams are required depending on equipment used.

- Fluorine Free
- 100% Biodegradable
- High Performance Multipurpose & High Expansion Foam
- Approved EN 1568, ISO 7203 and IMO 670 as High Expansion Foam
- Tested with Inside Air
- Documented filling height up to 35 meters



APPLICATION

Fomtec LS EXP is a multi-purpose foam which can be used at low, medium and high expansion on class B hydrocarbon fuels such as diesel, gasoline, oil and aviation fuel. Fomtec LS EXP has been tested with use of “inside air” during fire and has shown very high efficiency under such conditions, being able to extinguish both large class A and class B fires. Tests with inside air also showed very good extinguishing capabilities of E85 fuel that consist of 85% Ethanol.

At medium and high expansion, Fomtec LS EXP can be used for total flooding of confined areas with fires involving class A and B materials. Medium expansion is particularly suitable for small areas such as cellars and basements of buildings and high expansion type for large areas such as warehouses, ship cargo or engine rooms. LS EXP has also been tested on LNG fires with satisfactory result as gas suppressant, creating a foam lid on the LNG surface.

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 9:1, 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	Expansion @ 6 bar
Fomtec Bele L	-	450:1
Fomtec Bele S 400	600:1	750:1
Fomtec Bele S 800	600:1	750:1

EQUIPMENT

Fomtec LS EXP can easily be proportioned at the correct dilution using conventional proportioning equipment. The equipment should be designed to the foam type. Fomtec LS EXP can be used with low, medium and high expansion foam generators.

COMPATIBILITY

Fomtec LS EXP is compatible with all water types. 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 LS EXP 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 LS EXP is 100% biodegradable. The handling of spills of concentrate or foam

TYPICAL DATA

Appearance	Clear yellowish
liquid	
Specific gravity at 20°C	1,01 +/- 0.01 g/ml
Viscosity at 20°C	≤ 30 mPas
pH	6,5 - 8,5
Freezing point	7°C
Recommended storage temperature	7 - 55°C
Suspended sediment (v/v)	Less than 0,2%
Surface tension	≤ 23,0 dynes/cm

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.

PACKAGING

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

Litres per piece	Packaging	Part no
25 litres	Can	11-3112-01
200 litres	Drum	11-3112-02
1000 litres	Container	11-3112-04
Bulk	Special request	

INTERNATIONAL APPROVALS

- EN 1568 part 2
- IMO MSC/Circ.670
- ISO 7203
- Russian GOST
- China



by fomtec

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.