# FOMTEC® LS xMax

Fluorine Free Multipurpose and high expansion foam concentrate

## Fomtec©
# LS xMax


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Fomtec LS xMax is a multipurpose and high expansion foam concentrate consisting of a blend of hydrocarbon surfactants, solvents and stabilisers. All Fomtec multipurpose foam concentrates are totally free from fluorinated surfactants and polymers (PFAS). The fire suppression mechanism of Fomtec LS xMax on liquid surface fuels is utilising the foam blankets ability to block oxygen supply to the fuel and the high water content cools the fuel surface reducing the evaporation of flammable vapours. Additionally, the foam blanket prevents reignition of an extinguished fuel surface.

- Fluorine Free
- 100% Biodegradable
- High Performance Multipurpose & High Expansion Foam
- Approved according to EN 1568 part 1, 2 and 3
- Tested by CNPP, T12 high expansion test standard
- UL listed
- Documented filling height with high expansion up to 35 meters





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## DESCRIPTION

The high expansion extinguishing mechanism enables oxygen depletion in a three dimensional fire by totally engulfing the flammable material inside enclosed areas. Additionally, the high content of water in the foam will cool the flammable materials.
Large scale high expansion tests has shown that Fomtec LS xMax is capable of reaching filling heights in enclosed areas of up to 35 meters with good collapse behaviour. Fomtec LS xMax should be used at a 3% proportioning ratio (3 parts concentrate and 97 parts water) for hydrocarbon fuels.
Fomtec xMax can be stored as premix when blended with fresh water.
For use on Class A type fires, induction ratio of 0,3% to 1% is recommended depending on application and discharge device.

## APPLICATION

Fomtec LS xMax is intended for use on class B hydrocarbon fuels such as oil, diesel, gasoline and aviation fuels. Fomtec LS xMax can be used with all kinds on low, medium and high expansion devices. It is intended to be used at 3% proportioning.
Fomtec LS xMax is also effective against class A fires such as wood, paper, textiles etc. at 0.3 to 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 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.

## FIRE PERFORMANCE & FOAMING

The fire performance has been measured and documented according to the "International Approvals" stated in this document. The use of the product should follow design guidelines appropriate to the type of system and application.
The foaming properties are depending on equipment used and other variables such as water and ambient temperatures.
Average low expansion 10:1, average 25% drainage time 9:00 minutes using UNI 86 test nozzle.

## EQUIPMENT

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

| TYPICAL DATA | |
|---|---|
| Appearance | Clear yellowish liquid |
| Specific gravity at 20°C | 1,02 ± 0.01 g/ml |
| Viscosity at 20°C spindle #1, 60 rpm | ≤ 50 mPas |
| pH | 6,5 - 8,5 |
| Freezing point | -6°C |
| Recommended storage temperature | -5°C – 55°C |
| Suspended sediment (v/v) | Less than 0,1% |

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 |

## COMPATIBILITY

Fomtec LS xMax is suitable for all water types. It is compatible with foam compatible dry chemical powders as well as other expanded foam types.
For mixing with other concentrates, contact Fomtec for advise and guidance. For material compatibility please refer to our Fomtec Technical Advices FTA 20 addressing the topic.

## ENVIRONMENTAL

Fomtec LS xMax is non-hazardous, biodegradable substance formulated using raw materials specially selected for their fire performance and their environmental profile. All raw materials are registered in European REACH-database. The product is totally free from fluorinated surfactants and polymers and other organohalogens, and therefore it does not contain any PFAS.
The disposal of spills of concentrate or premix foam solution should be made in accordance with local regulations. For more detailed information please consult our 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.





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## INSPECTION/TESTING/ MAINTENANCE

All foam concentrates should be tested annually. Testing should be carried out by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568 and IMO MSC.1Circ. 1312. Storage containers should be inspected and reevaluated for the suitability of the storage location regarding temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

## 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.

## 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 | 11-3500-01 | 26,7 kg | 295 x 260 x 441 |
| 200 ltr | Drum | 11-3500-02 | 212,5 kg | 581 x 581 x 935 |
| 1000 ltr | Container | 11-3500-04 | 1080 kg | 1200 x 1000 x 1150 |
| 5 US gal. | Can | 11-3500-XX | 20,3 kg | 295 x 260 x 441 |
| 55 US gal. | Drum | 11-3500-XX | 221,0 kg | 581 x 581 x 935 |
| 265 US gal. | Container | 11-3500-XX | 1085 kg | 1200 x 1000 x 1150 |
| Bulk | Special request | 11-3500-XX | | |

** including packaging.*

## INTERNATIONAL APPROVALS

- EN 1568 part 1, Pass
- EN 1568 part 2, Pass
- EN 1568 part 3,
  *Class IIIB fresh water, IIIC sea water*
- Tested to CNPP T12
- UL 162






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