

Fomtec LS EXP FOAM CONCENTRATE

Description

Fomtec LS EXP is a ultra effective high expansion foam concentrate for use in any High expansion system.

Fomtec LS EXP mixed with water and converted into finished foam via low, medium or high expansion foam making equipment combats fires by engulfing the area, restricting the supply of oxygen, cooling of the liquid surface, and the suppression of flammable gases evaporating from the hot liquid surface. Used as high expansion in complete filling of enclosed rooms the foam creates an inert atmosphere.

Fomtec LS EXP should be used between 2% -3% concentration in fresh or sea water if medium or high expansion foams are required depending on equipment used.

Application

Fomtec LS EXP is a multi purpose foam which can be used at low, medium and high expansions for the extinguishment of class B hydrocarbon fires such as small fuel spills (low & medium expansion), bench protection (medium expansion), and it can also be used for the control and extinction of cryogenic flammable liquid fires or vapor release from toxic spillage. Fomtec LS EXP has been tested with use of inside smoke filled air during fire and has shown very high efficiency under such conditions, being able to extinguish both large class A and class B fire. Tests with inside air also showed very good extinguishing capabilities of E85 fuel that consist of 85% Ethanol who is a polar solvent.



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

Foaming Properties

The expansion will vary depending on the characteristics of the equipment used. low expansion (1 to 20:1), medium expansion (20:1 to 200:1 ; typical value 110:1 at 3%) and high expansion (200:1 to 1000:1 ; typical value 500:1 at 3%). Test with fan driven high expansion foam generators has shown expansion of more then 1000:1

Proportioning

Fomtec LS EXP can easily be proportioned at the correct dilution using conventional equipment such as:

- Inline inductors.
- Balanced pressure, variable flow proportioning systems.
- Bladder tanks.
- Around the pump proportioning systems.
- Water turbine driven foam proportioners.
- Self inducting branch pipes and nozzles
- High expansion foam generators.

Technical data

Appearance	Clear amber liquid
Specific gravity @ 20°C	1.00 +/- 0.01 g/ml
Viscosity approx @ 20°C	< 20 cSt
pH	7.5 +/- 1.0
Freezing point	- 2°C
Pour point	0°C
Suspended sediment (v/v)	Less than 0.1 %

Storage/Shelf Life

Stored in original unbroken packaging the product will have a long shelf life. The recommended storage temperature range of Fomtec LS EXP is from 10°C to 49°C. Freezing and thawing will have no impact on the performance.

Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electromagnetic corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates.

Packaging

We supply Fomtec in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

Approvals

En 1568 par 2

IMO MSC/Circ.670

ISO 7203