

Hi Foam Synthetic Hi Ex

Description

Hi Foam is a superior quality high expansion fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Its unique formulation is a blend of high activity synthetic foaming agents and foam stabilisers specially formulated to produce an extremely stable long lasting foam. Hi Foam has been formulated primarily for use at medium and high expansion, and it is effective on a wide variety of Class A and Class B fire risks. The finished foam has drainage characteristics far superior to those of standard detergents which increase its ability to carry water to the fire, acting as a positive aid to effective fire extinguishment.

Hi Foam used at medium and high expansion combats fires in three ways:

- Initial contact with fire generates a large volume of steam reducing the available oxygen to create an inert atmosphere.
- The high water content of medium expansion foam produces a valuable cooling effect.
- The large volume of foam generated engulfs the area and totally seals off and extinguishes any remaining fires.

Hi Foam is extremely economical. For example, when used with the Hi-Combat Turbex Mk2 high expansion foam generator 200 m³ min⁻¹ (7000 ft³ min⁻¹) of finished foam can be produced at an expansion of 1200:1 for a consumption rate of nominally 5 l min⁻¹.

Environment

Hi Foam demonstrates low aquatic toxicity.

Applications

Hi Foam is the ideal foam to use at medium expansion at minor incidents such as small hydrocarbon liquid spill fires where close approach to the fire allows hand-held apparatus to be used. It can also be used in conjunction with fixed installations to provide bund protection, where it can achieve extinction of fires or suppression of toxic vapour release after chemical spillage.

At medium and high expansion Hi Foam is used for the total flooding of fire areas involving Class A and Class B fires: medium expansion for small areas such as cellars and basements of buildings, and high expansion for large areas such as ships' holds, machinery spaces, and LNG storage tank bunds. Medium and high expansion foams are most effective when dealing with outbreaks of fire in inaccessible locations, where direct application of conventional agents such as water is difficult or impossible due to smoke or restricted access.

Equipment

Hi Foam is intended for use at 1 - 3% (high expansion) to 3 - 6% (medium expansion).

Compatibility

Hi Foam is suitable for use in combination with:

- Soft or hard, fresh, brackish or sea water.
- Expanded protein based or synthetic foams for application to a fire in sequence or simultaneously.

Dry Powder

Hi Foam is not normally considered compatible with dry powders but on LNG applications (high expansion) only surface foam layers are attacked leaving a good vapour controlling blanket in place while the foam is topped up.

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Storage

Hi Foam concentrate is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly.

Disposal

Please refer to Kerr Fire's Foam Disposal Guide and MSDS for more information.

Product Quality

Hi Foam is produced to rigorous quality control standards to ensure consistent fire performance and excellent product reliability. Kerr Fire operates a quality management system which complies with the requirements of BS EN ISO 9001.

Typical Physico-Chemical Properties

Appearance		Clear Liquid
Specific Gravity @ 20°C (68°F)		1.00 - 1.02
pH @ 20°C (68°F)		6.0 - 8.0
Viscosity @ 20°C (68°F)	mm ² sec ⁻¹	7
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing point	°C (°F)	-3 (27)
Effect of freeze/thaw		No loss of performance
Lowest use temperature	°C (°F)	-3 (27)
Induction rate	%	2
Expansion Ratio		≥ 500
25% Drainage Time	min/sec	≥ 8'00"

Typical Packing Specification

	Plastic Square	Plastic Square	Plastic Cylindrical	Ecobulk MX
Capacity	20 litres	25 litres	200 litres	1000 litres
Empty weight (kg)		1.2	9.0	70
Filled weight (kg)		26	211	1110
Dimensions (mm)		448 x 286 x 286	580 D x 922 H	1200 L x 1000 W x 1160 H

EMERGENCY FOAM SERVICE Call +44 (0) 15242 61166 – 24 hours a day, every day

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