



# Filmfoam 813

3% AFFF

## Description

**Filmfoam 813** is an aqueous film forming foam concentrate (AFFF) consisting of fluorocarbon and hydrocarbon surfactants blended with various solvents, preservatives and stabilisers.

The foam forms an aqueous film which helps to prevent the release of fuel vapours while the foam blanket from which the film forming liquid drains excludes oxygen from the fuel surface, extinguishing the fire and preventing re-ignition. The water content of the foam provides a cooling effect. The film forming liquid, although heavier, floats on the surface of the fuel, due to its lower surface tension.

**Filmfoam 813** should be used as a 3% proportioned solution in fresh or sea water. It may also be used and stored as a 3% pre-mix solution in fresh/potable water. The correct proportioning or mixture ratio is 3 parts of concentrate to 97 parts of water.

## Typical physiochemical properties

Appearance	Clear amber liquid
Specific gravity (g/ml) @ 20°C	1.020 +/- 0.010
Viscosity (mm <sup>2</sup> /s) @ 20°C	maximum 10
pH	8.0 +/- 0.5
Freezing point (°C)	-11
Pour point (°C)	-10
Suspended sediment (v/v)	Less than 0.1%

## Application

**Filmfoam 813** is intended for use on B class hydrocarbon fuel fires such as oil, petroleum, aviation fuels. It can be used with both aspirating and non aspirating discharge devices. **Filmfoam 813** is particularly suitable where fast fire knockdown is essential. It is compatible with all dry powders and can be used in dry powder/foam twin agent systems. Its excellent wetting characteristics make it useful in combating class A fires as well.

## Foaming properties

The expansion will vary depending on the performance characteristics of the equipment used. When testing to DEF 42-40 at 3% concentration the expansion will be at least 7:1 (normally 8:1) with a 25% drainage time of not less than 3 minutes (normally 3.5 minutes).

Continued overleaf

## Kerr Fire Fighting Chemicals

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## Typical performance

The fire performance of **Filmfoam 813** is measured against standards such as United Kingdom Ministry of Defence Standard 42-40 at 3%.

## Storage/shelf life

When stored in the drums supplied the material has a long shelf life. The minimum and maximum usable temperatures for **Filmfoam 813** concentrate are  $-10^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$  respectively and shelf lives in excess of 10 years will be found in temperate climates. If the product is frozen during storage or transportation, thawing will render the product completely usable.

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

## Proportioning

**Filmfoam 813** (3%) can be proportioned easily at the correct dilution rate using conventional equipment such as:

- variable in line foam inductors with handlines
- balanced pressure variable flow proportionators
- foam monitors
- bladder tank proportionators
- around the pump proportionators.

## Approvals

BSI	Manufacture and quality control system approved to BS.EN.ISO 9002 (1994)
EN	EN 1568-3 : Class I/B – Fresh and sea water
UK	Ministry of Defence, DEF 42-40 (SOLAS)

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