

## Description

Fomtec AFFF 3% S 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 that rapidly cuts off the oxygen supply and thus knocks down the fire. The expanded foam from which the film is drained forms a stable blanket that suppresses the release of flammable vapours and cools down the fuel surface extinguishing the fire and preventing re-ignition.

The low surface tension of the water foam concentrate solution enables the aqueous film, although heavier than the burning liquid, to float on top of the liquid surface.

Fomtec AFFF 3% S should be used at 3% proportioned solution (3 part concentrate in 97 parts of water) in fresh, brackish or seawater. It may also be stored as a pre mix solution in fresh water.

## Application

Fomtec AFFF 3% S is intended for use on class B hydrocarbon fuel fires such as oil, diesel and aviation fuels. It can be used with both aspirating and non-aspirating discharge devices.

Fomtec AFFF 3% S is especially suited whenever rapid fire knock-down is essential. It is ideal for any area where flammable non water miscible fuels are stored, handled or consumed. It is compatible with all dry chemical powders and can be used in powder/foam twin agent systems.

## Sprinkler Applications

Fomtec AFFF 3% S has been tested according to the Underwriters Laboratories Standard UL 162 using standard sprinkler heads K 80 and K115. Sprinkler applications are especially challenging for any foam due to the very low operating pressure and the very low expansion reached. Applying foam through a sprinkler head is a very forceful application method and require a foam that can handle direct application and partial submersion into the fuel without

losing its fire performance and burnback resistance. Foams that shall be regarded as suitable for Sprinkler applications shall also be able to withstand limited time of water deluge directly onto the foam blanket without losing its burnback properties. Fomtec AFFF 3% S has passed these tests showing very good extinguishing and burnback properties.

The Fomtec AFFF 3% S is ideal for all High risk applications where any type of discharge outlet may be in use such as:

- Petrochemical and chemical plants
- Offshore installations
- Oil tankers
- Tank Farms
- Warehouses

## Fire Performance & Foaming

The fire performance of Fomtec AFFF 3% S has been tested and documented according to the, UK Ministry Of Defence Standard 42/40 and Underwriters Laboratories Standard UL 162 – 7<sup>th</sup> Edition as well as Factory Mutual (FM) 5130

Foaming index no less than 7:1 (normally 8:1). 25% drainage time 3.0 minutes (normally 3.5).

## Proportioning

Fomtec AFFF 3% S 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.

## Technical data

Appearance	Clear Amber Liquid
Specific gravity @ 20°C	1.02 +/- 0.01 g/ml
Viscosity approx @ 20°C	< 15 cSt
pH	7.5 +/- 0.5
Freezing point	-2°C
Pour point	- 0°C
Suspended sediment (v/v)	Less than 0.2%
Surface tension approx	18.5 dynes/cm

## Environmental Information:

Fomtec AFFF 3% S is formulated using specially selected raw materials, selected for their fire performance and their environmental profile. Fomtec AFFF 3% S is biodegradable. The handling of spill of concentrate or foam solutions shall how ever be made according to local regulations. Normally sewage systems will have no problem with a 3% foam solution based on Fomtec AFFF 3% S, but local sewage operators should be consulted in this respect.

Full details will be found in the Material Safety Datasheet(MSDS)

### Storage/Shelf Life

Stored in original unbroken packaging the product will have a long shelf life. The recommended storage temperature range of Fomtec AFFF 3% S is from -0°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.

### International Approvals

- Underwriters Laboratories, UL 162 7<sup>th</sup> edition
- Factory Mutual (FM) 5130