



Filmfoam 916K

6% AFFF

Description

Filmfoam 916K 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 916K should be used as a 6% proportioned solution in fresh or sea water. It may also be used and stored as a 6% pre-mix solution in fresh/potable water. The correct proportioning or mixture ratio is 6 parts of concentrate to 94 parts of water.

Typical physiochemical properties

Appearance	Clear amber liquid
Specific gravity (g/ml) @ 15.6°C	1.01 +/- 0.01
Viscosity (c.s.) approx. @ 20°C	2
pH	7.1 +/- 0.5
Freezing point (°C)	-2
Pour point (°C)	0
Suspended sediment (v/v)	Less than 0.2%

Application

Filmfoam 916K 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 916K** 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 wetting characteristics make it useful in combating class A fires as well.

Typical performance

The fire performance of **Filmfoam 916K** is measured against standards such as United Kingdom Ministry of Defence Standard 42-40 at 6% and Underwriters Laboratories Standard UL 162 - 7th Edition.

Continued overleaf

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Foaming properties

The expansion will vary depending on the performance characteristics of the equipment used. When testing to DEF 42-40 using 6% concentration, the expansion will be at least 8:1 with a 25% drainage time of not less than 3.5 minutes.

Storage/shelf life

When stored in the drums supplied the material has a long shelf life. The minimum and maximum usable temperatures for **Filmfoam 916K** concentrate are +1.7°C and +49°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 916K (6%) 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
- water fog/spray nozzles and monitors
- bladder tank proportionators
- around the pump proportionators.

Approvals

BSI	Manufacture and quality control system approved to BS.EN.ISO 9002 (1994)
UL	Underwriters Laboratories (USA) UL Standard 162 (7th Edition) - Foam quality tests - Class B Hydrocarbon fuel fire tests - Foam identification tests - Tests of shipping containers
Lloyds	Fire Extinguishing Media to ICAO specifications – Level B

Non-warranty

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