

## Filmfoam 916K FP -18 AFFF 6%

### Description

Filmfoam 916K FP -18 is a superior quality synthetic Aqueous Film-Forming Foam (AFFF) concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Filmfoam 916K FP -18 is a unique combination of hydrocarbon and fluorochemical surface active agents.

It produces a vapour sealing aqueous film that spreads rapidly over the fuel surface to provide rapid control and extinguishment.

- Film forming for fast flame knockdown and extinguishment.
- Burnback resistance and post-fire security.
- Foam blanket reseals when ruptured by personnel or equipment.

### Application

Filmfoam 916K FP -18 is used in high risk situations where hydrocarbons (such as crude oil, gasoline, diesel fuel, and aviation kerosene) are stored, processed, or transported. It is used extensively on Rapid Intervention Vehicles (RIV) at major international airports and military bases where fast extinguishment with limited quantities of foam is essential for saving life. Other applications include hydrocarbon storage tanks, process areas, warehouses, road/rail loading racks, power stations, marine terminals and offshore platforms.

Filmfoam 916K FP -18 provides a vapour suppressing foam blanket on unignited hydrocarbon spills.

Filmfoam 916K FP -18 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper and tyres.

### Performance

The fire performance of Filmfoam 916K FP -18 is measured primarily against internal test procedures

### Equipment

Filmfoam 916K FP -18 is intended for use at 6% (6 parts concentrate to 94 parts water).

Filmfoam 916K FP -18 is readily proportioned using conventional foam proportioning equipment such as portable and fixed (in-line) foam venturi proportioners, handline nozzles/branchpipes with pick-up tubes, balanced pressure variable flow proportioners, balanced pressure bladder tank proportioners, and around-the-pump proportioners. Filmfoam 916K FP -18 can be used with air aspirating discharge devices such as low expansion branchpipes, monitors, top pourer sets, rimseal foam pourers, foam/water sprinklers and base (sub-surface) injection systems. Filmfoam 916K FP -18 can be used with non aspirating discharge devices such as spray/fog branchpipes and nozzles, monitors, and spray/fog sprinklers. However, non aspirated application is not recommended as the primary method of attack for major fires where a stable foam cover is essential.

### Compatibility

Filmfoam 916K FP -18 is suitable for use in combination with:

- Soft or hard, fresh, brackish or sea water.
- Dry powder extinguishing agents either separately or as twin agent systems.
- Expanded protein based or synthetic foams for application to a fire in sequence or simultaneously.

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### Typical Physico-Chemical Properties

Appearance		Amber liquid
Specific gravity @ 20°C (68°F)		1.04 – 1.05
pH @ 20°C (68°F)		6.5 - 8.0
Viscosity @ 20°C (68°F)	mm <sup>2</sup> sec <sup>-1</sup>	3.0
Viscosity @ 0°C (32°F)	mm <sup>2</sup> sec <sup>-1</sup>	8.0
Viscosity @ -10°C	mm <sup>2</sup> sec <sup>-1</sup>	12.0
Maximum continuous storage temperature	°C (°F)	49 (120)
Effect of freeze/thaw		No performance loss
Lowest use temperature	°C (°F)	-18 (0)
Sediment as shipped	% v/v	0.1
Sediment after aging	% v/v	0.5

### Foam Properties

As with any foam, the foam properties of Filmfoam 916K FP -18 vary depending on the performance characteristics of foam equipment used and the operating conditions. When tested in accordance with UK Defence Standard 42-40 it gives the following properties:

Expansion Ratio	> 7:1
25% Drainage Time	> 3 minutes 30 seconds

### Environment

Filmfoam 916K FP -18 demonstrates low toxicity to aquatic organisms.

### Storage

Filmfoam 916K FP -18 is exceptionally stable in long term storage. A shelf life of at least ten years may be expected if it is stored properly.

### Disposal

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

### Reliability

Filmfoam 916K FP -18 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 9001:2008

### Typical Packing Specification

	Plastic Square	Plastic Square	Plastic Cylindrical	Plastic Cylindrical	Ecobulk MX
Capacity	25 Litres	5 US Gallons	200 Litres	55 US Gallons	1000 Litres
Empty Weight (kg)	1.2	0.8	9.0	9.0	70
Filled Weight (kg)	27	21	217	225	1110
Dimensions (mm)	448 x 286 x 286	402 x 293 x 240	580D x 922H	580D x 922H	1200L x 1000W x 1160H

For Emergency supplies of Filmfoam 916K FP-18 telephone +44 (0) 15242 61166