



Fluorofoam 903

3% Fluoroprotein foam

Description

Fluorofoam 903 is a fluoroprotein foam concentrate containing fluorinated surfactants in a carefully formulated protein foam liquid base. This ensures the production of a stabilised fluid foam which will cover a burning hydrocarbon fuel surface very rapidly. The water soluble fluorosurfactant makes the foam hydrocarbons repellent and reduces the amount of burning particles absorbed by the foam in fighting the hydrocarbon fuel fires. Once fire extinction has been achieved the high stability of the foam blanket ensures against the risk of re-ignition and provides excellent protection against 'burn-back' should any inaccessible pockets of fire remain.

Fluorofoam 903 should be used as a 3% proportioned solution in fresh or sea water. The correct proportioning or mixture ratio is 3 parts of concentrate and 97 parts of water.

Typical physiochemical properties

Appearance	Dark brown liquid
Specific gravity (g/ml) @ 15.6°C	minimum 1.12
Viscosity (c.s.) approx @ 20°C	8
@ 0°C	25
pH	6.9 – 7.9
Freezing point (°C)	-10
Pour point (°C)	-8
Suspended sediment (v/v)	Less than 0.25%

Application

Fluorofoam 903 is intended for use on B class hydrocarbon fuel fires such as oil, petroleum, aviation. **Fluorofoam 903** can be applied directly onto the fire surface and is also suitable for subsurface injection. 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 tested to DEF 42-40 using 3% concentration, the expansion will be at least 7:1 (normally 8:1) with a 25% drainage time of not less than 6.5 minutes (normally 7 minutes).

Continued overleaf

Kerr Fire Fighting Chemicals

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Typical performance

The fire performance of **Fluorofoam 903** is measured against standards such as United Kingdom Ministry of Defence Standard 42-40 at 3% and Underwriters Laboratories Standard UL 162 - 7th Edition.

Storage/shelf life

When stored in the drums supplied the material has a long shelf life. The minimum and maximum usable temperatures for **Fluorofoam 903** concentrate are -6.7°C and $+49^{\circ}\text{C}$ respectively and shelf lives in excess of 5 years will be found in temperate climates. As with all protein based materials, shelf life will be dependant on storage temperatures and conditions. If the product is frozen during storage or transportation, thawing will render the product completely usable.

Fluorofoam 903 may be stored in plastic or metal containers. For bulk storage, mild steel tanks may be used provided the internal surface is coated with a protective coating such as bitumen. The use of galvanised material should be avoided for storage vessels and pipework involving the concentrate.

Proportioning

Fluorofoam 903 (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 9001 (2000)
UL	Underwriters Laboratories (USA) Inc. control number 4L51 UL Standard 162 (7th Edition) - Foam quality tests - Class B Hydrocarbon fuel fire tests - Foam identification tests - Tests of shipping containers
UK	Ministry of Defence, DEF 42-40 (SOLAS)

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Non-warranty

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