# AFOAM-FFFP FOAMCONCENTRATE

## Description

A FOAM-FFFP %1/3/6 is a film forming fluoroprotein foam concantrate contain hydrolysed protein and preservatives, together with a blend of fluorinated surfactants to achieve the maximum synergistic effect. The blend of fluorochemicals selected is effective in reducing the surface tension of water as well as the interfacial tension between water and oil sufficiently low to give stable film on the surface of the fuel and as a result it gives fire extinguishing rates superior to those obtained with synthetic based compounds.

## TypicalPhysiochemicalProperties

| | |
|---|---|
| Appearance | Brownliquid |
| pH(20 oC) | 7± 1 |
| Viscosity(20 oC) | min 5 cP |
| Density(20 oC) | 1.03 ± 0.03 gr/cm3 |
| Storage Temperature | Min -15° C ,Max+60 °C |
| Sediment(20 oC) | < %0,01 |
| Recommended usage concentration | %1/3/6 |
| Suitable for use with fresh or seawater. | |
| Burn-Back Resistance Level | C |
| Fire Fight Performance Class | III |
| Pour Point | - 5°C |
| Freze Point | -15°C |

## Application

A FOAM-FFFP %1/3/6 is used in high risk situations where hydrocarbons (such as diesel fuel, gasoline, crude oil ) are stored, processed or transported A FOAM-FFFP %1/3/6 is desingned and recommended for fast fire knockdown to save human lives, in addition to preventing catastrophic fire development; in paticular when used in fire fighting vecihles in the airports and fixed fire systems in heliports. A FOAM-FFFP %1/3/6 can also be used as a wetting agent in combating fires in Class A materials such as paper, wood, tires. It is most suitable for simultaneous use with compatible powders in twin- agents or extinguishers.
A FOAM-FFFP %1/3/6 is principally recommended for protection against fire in:

- Airports and heliports
- Aircraft hangars
- Industrial chemical and petroleum processing facilities
- Truck/rail loading and unloading facilities
- Flammable liquid containment areas
- Hydrocarbon stroge tanks and power stations
- Mobile equipment
- Sprinkler Systems
- Loading Systems
- MarineTerminals and Vessels

## Approvals,Listings,andStandards

A FOAM-FFFP %1/3/6 is in conformity with all national and international standarts, EN 1568:2008 Part 1,Part2, Part 3, 96/98/EC directives Afmer Chemicals CO. operates a quality management system which complies with requirements of ISO 9001:2008.

## FoamingProperties

A FOAM-FFFP %1/3/6 Concentrate may be effectively applied using most conventional foam discharge equipment at %1/3/6 dilution with fresh, salt, or hard water. For optimum performance, water hardness should not exceed 500 ppm expressed as calcium andmagnesium.
A FOAM-FFFP %1/3/6 Concentrate requires low energy to foam and the foam solution may be applied with aspirating and non-aspirating discharge devices.
Aspirating discharge devices typically produce expansion ratios from 3.5:1 to 10:1 depending on the type of device and the flow rate. Non-aspirating devices, such as handline water fog/stream nozzles or standard sprinkler heads, typically produce expansion ratios from 2:1 to 4:1. Medium-expansion discharge devices typically produce expansion ratios from 20:1 to60:1.

## Performance

A FOAM-FFFP %1/3/6 is produced to rigorous quality control standarts. AGer each production, the performance tests are performed to product in Afmer Chemicals CO. PerformanceLaboratories.

## Compatibility

A FOAM-FFFP %1/3/6 is suitable for use in combination with:
- Soft or hard, fresh or seawater.
- Dry powder extinguishing agents either seperately or as twin agentsystems.
-Expanded fluoroprotein foams for application to a fire in sequence or simultaneously.
A FOAM-FFFP %1/3/6 properties do not change in case of frost. It recovers its initial properties as soon as it is defrosted.

## Storage

A FOAM-FFFP %1/3/6 is exceptionally stable in long-term storage. Shelf life of at 10 years can be expected if it is stored properly in original container A FOAM-FFFP %1/3/6 is suitable for storing steel tankbody.

## TypicalPackingSpecification

| Capacity | 20 litres | 30 litres | 220 litres | 1000 litres |
|---|---|---|---|---|
| Empty Weight (kg) | 1.0 | 1.2 | 9.0 | 70 |
| Filled Weight(kg) | 21 | 32 | 230 | 1075 |
| Dimensions(mm) | 305 x 295 x 333 | 380 x 300 x 360 | 585 D x945 H | 1200 L x 1000 W x 1165 H |

Palletizing of pails and drums is available upon request.