

Alcohol Resistant Film Forming Fluoroprotein Foam Concentrate

Description

IFP AR-FFFP 3/3^{C6} is multipurpose alcohol resistant film forming foam liquid concentrate is suitable for use in hydrocarbon and polar solvent fire hazards. IFP AR-FFFP 3/3^{C6} concentrate is produced from hydrolysed Protein Concentrate, special type of fluorinated surface active agent in combination with biopolymer, stabilizer and preservatives to make it suitable for protection of high risk areas. It is a multipurpose foam liquid useful both for hydrocarbon fuel fires as well as polar solvent fuel fires. It contains natural protein and no harmful synthetic detergents. When mixed with water and discharged through proper discharge devices it makes stable fluid foam which covers the burning fuel rapidly leading to faster extinction and ensures superior burn-back character. The foam is highly resistant to fuel pick-up and therefore creates very stable foam blanket over the fuel surface.

Properties

Appearance	Amber Colour Liquid
pH	6.0 – 7.5
Specific Gravity	1.10 to 1.14 gm/ml
Viscosity	Less than 1000 cPs
Sludge Contents (% V/V)	Less than 0.2%
Pour Point*	(-)5°C

Applications

IFP AR-FFFP 3/3^{C6} is intended for use at 3% proportioning on hydrocarbon fuels as well as polar fuels. It can be used with fresh and salt water. It is extensively used in oil and petrochemical industries for hydrocarbon, MTBE and blended unleaded gasoline storage tank fire protection, solvent industries, chemical cargo vessels, industries dealing with water miscible solvents. It is suitable for use in special appliances like road/rail loading racks, power stations, marine terminals and airports. IFP AR-FFFP 3/3^{C6} can be applied directly onto the fire surface or fixed foam discharge device depending on the characters of the fuel.

Proportioning

IFP AR-FFFP 3/3^{C6} can easily be proportioned using conventional equipments

- Fixed and Portable In-line Inductors
- Balanced Pressure and variable flow proportioning systems.
- Bladder tanks.
- Around the pump inductor.
- Self inducing branchpipes and nozzles.

Discharge Devices

- Foam chambers
- Air aspirating foam nozzles.
- Air aspirating sprinkler heads and spray nozzles
- Medium Expansion Branchpipes.
- Foam Pouter.

Storage/Shelf Life

When stored in the supplied packing and stored within the temperature range of (-)6°C - 49°C (21°F - 120°F) a shelf life of 10 years is expected. Freezing and thawing will have no impact on the performance.

For storing IFP AR-FFFP 3/3^{C6}, the following materials are recommended

SS-304, SS-316, Isophthalic Polyester Resin, Epoxy Resin, High Density Polyethylene.

Galvanized pipe and fittings must not be used in areas where undiluted concentrate will contact them since corrosion will result.

Compatibility

IFP AR-FFFP 3/3^{C6} is compatible with soft, hard, brackish or salt water. It can be used in combination with Dry powder extinguishing agents either separately or as twin agent systems.

IFP AR-FFFP 3/3^{C6} shall not be mixed with other manufacturer's foam concentrate except for use in emergency situations.

Environmental and Toxicological Information

IFP AR-FFFP 3/3^{C6} is biodegradable, non-corrosive and non-toxic. However, as with any substance, care should be taken to prevent discharge from entering ground water, surface water, or storm drains. It can be treated in sewage treatment systems. Since facilities vary widely by location, disposal or discharge of IFP AR-FFFP 3/3^{C6} concentrate or foam solution should be made in accordance with local government rules and regulations.

IFP AR-FFFP 3/3^{C6} does not contain harmful synthetic surfactants and glycol ethers.

For further details see IFP AR-FFFP 3/3^{C6} Material Safety Data Sheet/Safety Data Sheet.

Approvals and Listing

- Type approved by Lloyd's Register of Shipping as per IMO MSC.1/Circ. 1312

Standards

- UL 162
- ISO 7203-1 & 3
- EN 1568-3 & 4

Ordering Information

Part Number	Description	Volume, m ³ (ft ³)	Weight (kg)
111010-01	Pails/Cans 20L (5.28 Gallon)	0.028 (0.99)	23.6
111010-02	Pails/Cans 30L (7.93 Gallon)	0.040 (1.40)	35.4
111010-03	Barrels 200L (52.84 Gallon)	0.318 (11.23)	233.2
111010-04	IBC Tote 1000L (264.2 Gallon)	1.386 (49.09)	1177

Container capacity and seaworthy packing also complied with customers' requirements

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