

Film Forming Fluoroprotein Foam Concentrate

Description

IFP-FFFFP 3^{C6} is specially formulated film forming fluoroprotein foam concentrate, containing hydrolysed protein concentrate, special type of fluorosurfactants, solvents, stabilizers, biocide etc. to make it suitable for film formation as well as rapid extinction and superior burn-back resistant in hydrocarbon fuel fire. When mixed with water at 3% proportion 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. IFP-FFFFP 3^{C6} do not have any PFOS or PFOA or its derivatives.

Properties

Appearance	Amber Colour Liquid
pH	6.0 – 7.5
Specific Gravity	1.12 to 1.14 gm/ml
Viscosity	Less than 20 cst
Sludge Contents (% V/V)	Less than 0.2%
Pour Point*	(-)8°C

*Also available with freeze protection upto (-)15°C

Applications

IFP-FFFFP 3^{C6} is intended for use at 3% proportioned solution in both fresh and salt water. IFP FFFP 3^{C6} is ideal fire fighting foam to use in situations where hydrocarbon fuels as crude oil, gasoline, fuel oils are stored, processed and transported. It is extensively used in oil and petrochemical industries for hydrocarbon, MTBE and blended unleaded gasoline storage tank fire protection. It is not recommended for use on fuels having considerable water solubility like alcohols, ketones etc. It is suitable for use in special appliances like road/rail loading racks, power stations, marine terminals and airports. IFP-FFFFP 3^{C6} can be applied directly onto the fire surface and is also suitable for sub surface injection.

Proportioning

IFP-FFFFP 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 and non air aspirating sprinkler heads and spray nozzles
- Foam Monitor.
- Self inducing branchpipes and nozzles.

Storage/Shelf Life

When stored in the supplied packing and stored within the temperature range of 1.7°C - 49°C (35°F - 120°F) a shelf life of 10-15 years is expected. Freezing and thawing will have no impact on the performance.

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

Environmental and Toxicological Information

IFP-FFFF 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-FFFF 3^{C6} concentrate or foam solution should be made in accordance with local government rules and regulations.

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

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

Approvals and Listing

- Underwriter's Laboratories Inc., UL Listed
- Bureau of Indian Standard, BIS Marked

Standards

- ISO 7203-1
- ICAO Level B
- EN 1568-3
- UK Defence Standard 42-40/Issue-1

Ordering Information

Part Number	Description	Volume, m ³ (ft ³)	Weight (kg)
109010-01	Pails/Cans 20L (5.28 Gallon)	0.028 (0.99)	23.6
109010-02	Pails/Cans 30L (7.93 Gallon)	0.040 (1.40)	35.4
109010-03	Barrels 200L (52.84 Gallon)	0.318 (11.23)	233.2
109010-04	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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