

Protein Foam Concentrate

Description

IFP-PF 3 is Protein Foam Concentrates containing hydrolysed protein concentrate, stabilizers, preservatives etc. It is having a superior burn-back resistant character over hydrocarbon fuel fire. Once extinguishment achieved it gives a superior foam blanket which prevents the fuel from reignition. It contains natural protein and no harmful synthetic detergents. When mixed with water at 3% proportion and discharged through proper discharge devices it makes stable, tough 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	Deep Brown Liquid
pH	6.0 - 8.0
Specific Gravity	1.13 to 1.18 gm/ml
Viscosity	Less than 20 cst
Sludge Contents (% V/V)	Less than 0.2%
Pour Point*	(-)-10°C

Applications

IFP-PF 3 is intended for use at 3% proportioned solution in both fresh and salt water. IFP PF 3 is ideal fire fighting foam to use in situations where hydrocarbon fuels as crude oil, gasoline, fuel oils, aviation fuels are stored, processed and transported. 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-PF 3 can be applied directly onto the fire surface and is also suitable for sub surface injection.

Proportioning

IFP-PF 3 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 5 years is expected. Freezing and thawing will have no impact on the performance.

IFP-PF 3 may be stored in HDPE or metal containers. For bulk storage containers made of Mild Steel can be used preferably lined with bitumen. Storage tanks or pipelines with Galvenised material should be avoided.

Compatibility

IFP-PF 3 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.

Environmental and Toxicological Information

IFP-PF 3 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-PF 3 concentrate or foam solution should be made in accordance with local government rules and regulations.

IFP-PF 3 does not contain harmful synthetic surfactants and glycol ethers.

For further details see IFP-PF 3 Material Safety Data Sheet/Safety Data Sheet.

Approvals and Listing

- Bureau of Indian Standard, BIS Marked
- Type approved by Lloyds' Register of Shipping, UK, as per IMO MSC.1/Circ 1312

Standards

- UL-162
- ISO 7203-1
- EN 1568-3
- ICAO Level B
- UK Defence Standard 42-40/Issue-1

Ordering Information

Part Number	Description	Volume, m ³ (ft ³)	Weight (kg)
102010-01	Pails/Cans 20L (5.28 Gallon)	0.028 (0.99)	23.8
102010-02	Pails/Cans 30L (7.93 Gallon)	0.040 (1.40)	35.7
102010-03	Barrels 200L (52.84 Gallon)	0.318 (11.23)	235.2
102010-04	IBC Tote 1000L (264.2 Gallon)	1.386 (49.09)	1187

Container capacity and seaworthy packing also complied with customers' requirements

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