
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 - 1.18 gm/ml
Viscosity	Less than 18 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 sprinkler heads and spray nozzles
- Medium Expansion Branchpipes.
- Foam Makers (sub-surface)
- Monitors

STORAGE/SHELF LIFE

When stored in the supplied packing and stored within the temperature range of -10°C - 49°C (14°F - 120°F) a shelf life of more than 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, low toxicity. 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.

APPROVALS AND LISTING

- Bureau of Indian Standard, BIS Marked
- Indian Register of Shipping, Type Approved as per IMO MSC/Circ. 582

STANDARDS

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

STANDARD PACKING SPECIFICATION

Container Shape	Rectangular HM-HDPE	Rectangular HM-HDPE	Cylindrical HM-HDPE
Capacity	20 Ltrs	30 Lts	200 Lts.
Empty Weight	1.2 Kgs	1.8 kgs	9.0 kgs
Nominal Dimensions (mm)	H W B	H W B	H D
	357 282 278	495 242 380	915 585

Container capacity and seaworthy packing also complied with customers' requirements

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