

## *IFP AR FFFP TYPE 3/3*

### Alcohol Resistant Film Forming Fluoroprotein Foam Concentrate

#### DESCRIPTION

IFP AR FFFP TYPE 3/3 is multipurpose alcohol resistant film forming foam liquid concentrate is suitable for use in hydrocarbon and polar solvent fire hazards. IFP AR FFFP TYPE 3/3 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	Deep Brown Liquid
pH	6.0 - 8.0
Specific Gravity	1.08 - 1.12 gm/ml
Viscosity	1200-1500 cps
Sludge Contents (% V/V)	Less than 0.2%
Pour Point	(-) 6°C

#### APPLICATIONS

IFP AR FFFP TYPE 3/3 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 TYPE 3/3 can be applied directly onto the fire surface or fixed foam discharge device depending on the characters of the fuel.

#### PROPORTIONING

IFP AR FFFP TYPE 3/3 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 Pourer

#### 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 more than 5 years is expected. Freezing and thawing will have no impact on the performance.

#### COMPATIBILITY

IFP AR FFFP TYPE 3/3 is compatible with soft, hard, brakish or salt water. It can be used in combination with Dry powder extinguishing agents either separately or as twin agent systems.

IFP AR FFFP TYPE 3/3 shall not be mixed with other manufacturers foam concentrate except for use in emergency situations.

## ENVIRONMENTAL AND TOXICOLOGICAL INFORMATION

IFP AR FFFP TYPE 3/3 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 AR FFFP TYPE 3/3 concentrate or foam solution should be made in accordance with local government rules and regulations.

IFP AR FFFP TYPE 3/3 does not contain harmful synthetic surfactants and glycol ethers.

For further details see IFP AR FFFP TYPE 3/3 Material Safety Data Sheet.

## STANDARDS

- UL 162
- ISO 7203-1 & 3
- IMO MSC/Circ. 582 & 799
- EN 1568-3 & 4

## 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 357 282 278	H W B 495 242 380	H D 915 585

Container capacity and seaworthy packing also complied with customers' requirements

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