

# IFP CLASS A FOAM

## Class A Foam Concentrate

### DESCRIPTION

IFP CLASS A FOAM, is a foam concentrate for use in Class "A" fire, is a non-corrosive, non-toxic, biodegradable foam concentrate. When mixed with water in the correct proportion, it changes the properties of water. It reduces the surface tension of the water, and produces foam, which allows the water to cling to vertical or horizontal surfaces without run off. This allows the water to absorb more heat and provides greater penetration into Class "A" fuels.

### PROPERTIES

Appearance	Colourless Liquid
pH	7.0 - 8.0
Specific Gravity	1.00 to 1.05 gm/ml
Viscosity	Less than 10 cst
Sludge Contents (% V/V)	Nil
Surface Tension	
0.1% solution	25.0 dynes/cm
0.6% solution	23.5 dynes/cm
1% solution	23 dynes/cm
Pour Point	(-)5°C

### APPLICATIONS

As with most conventional foam making equipment, the expansion of IFP CLASS A FOAM Concentrate will vary depending on the performance characteristics of the equipment and the type of water (i.e., fresh, salt, or hard) at the correct dilution. Aspirating discharge devices produce expansion ratios from 6:1 to 10:1 depending primarily on the type of aspirating device and flow rate. In general, the higher the flow rate, the higher the expansion ratio. Non-aspirating devices such as hand line water fog/stream nozzles will give expansion ratios of 2:1 to 4:1.

IFP CLASS A FOAM Concentrate is intended for use on Class A combustible fires. Its low surface tension demonstrates the excellent wetting characteristics needed to efficiently combat Class A fires.

It is not intended for use on Class B hydrocarbons. This Compressed Air Foam System (CAFS) compatible concentrate can be used with both aspirating and non-aspirating discharge devices because of the low energy required to make it foam. IFP CLASS A FOAM concentrate can also be used with dry chemical extinguishing agents without any regard to the order of application.

### PROPORTIONING

IFP CLASS A FOAM 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 inducting branchpipes and nozzles

### STORAGE/SHELF LIFE

IFP CLASS A FOAM should be stored in plastic/plastic lined containers. For bulk storage, stainless steel or mild steel tanks with internal epoxy coating is recommended. If stored in original container at below 50°C, an indefinite storage life can be expected. For a short period, maximum storage temperature up to + 65°C should not be harmful. IFP CLASS A FOAM concentrate can be defrozen / thawed without change in quality

### COMPATIBILITY

IFP CLASS A FOAM 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 CLASS A FOAM shall not be mixed with other manufacturers foam concentrate except for use in emergency situations.

## ENVIRONMENTAL AND TOXICOLOGICAL INFORMATION

IFP CLASS A FOAM is biodegradable, low 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 CLASS A FOAM concentrate or foam solution should be made in accordance with local government rules and regulations.

For further details see IFP CLASS A FOAM Material Safety Data Sheet..

## STANDARDS

- Bureau of Indian Standard
- NFPA 18

## 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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