



IFP UNILIGHT CLASS-A

Class A Foam Concentrate

Description

IFP UNILIGHT CLASS-A, a foam concentrate for use in Class "A" fire, is a non-corrosive, non-toxic, biodegradable foam concentrate, intended for use in Class "A" fires admixing with potable and sea water. 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. IFP CLASS-A FOAM concentrate is Fluorine Free and also free from PFOS/PFOA or its derivatives.

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

*Also available with freeze protection upto (-)40°C

Application

The foam concentrate is designed for use between 0.1% to 1% in standard proportioning equipment. As with most conventional foam making equipment, the expansion of IFP UNILIGHT CLASS-A 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 UNILIGHT CLASS-A 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 UNILIGHT CLASS-A concentrate can also be used with dry chemical extinguishing agents without any regard to the order of application.

Proportioning

IFP UNILIGHT CLASS-A 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.

Storage/Shelf Life

IFP UNILIGHT 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 between 0°C and 50°C, a storage life of 20-25 years can be expected. For a short period, maximum storage temperature up to + 65°C should not be harmful. IFP UNILIGHT CLASS-A FOAM concentrate can be defrozen / thawed without change in quality.

Compatibility

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

Environmental and Toxicological Information

IFP UNILIGHT CLASS-A 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 UNILIGHT CLASS-A concentrate or foam solution should be made in accordance with local government rules and regulations.

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

Approvals and Listing

- Bureau of Indian Standard, BIS Marked, as per IS 4989:2018

Standards

- NFPA 18 & NFPA 1150
- EN 1568-3

Ordering Information

Part Number	Description	Volume, m ³ (ft ³)	Weight (kg)
101030-01	Pails/Cans 20L (5.28 Gallon)	0.028 (0.99)	21.2
101030-02	Pails/Cans 30L (7.93 Gallon)	0.040 (1.40)	31.8
101030-03	Barrels 200L (52.84 Gallon)	0.318 (11.23)	209.2
101030-04	IBC Tote 1000L (264.2 Gallon)	1.386 (49.09)	1057

Container capacity and seaworthy packing also complied with customers' requirements

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