



PRODUCT SHEET

IFP UNILIGHT SF (Fluorine Free)

Synthetic Foam Concentrate

Description

IFP UNILIGHT SF (Fluorine Free) is a specially formulated synthetic non-toxic foam liquid concentrate, free from any fluoro-chemical and fluoropolymers (PFAS). The highly stable foaming nature of IFP UNILIGHT SF allows the foam to spread across the burning liquid and get control over the fire. It is a highly stable foam when apply with conventional equipment and effective on Class A as well as Class B fires. IFP UNILIGHT SF is used at 1-3% proportioning system for application as low, medium and high expansion as well as compressed air foam system (CAFS). It does not contain any fluoro-chemical surfactant and therefore completely free from PFOS, PFOA and its derivatives and therefore complies with Directives (EU) 2017/1000 on PFOA and 2019/1021 (EU POPs directive). It is readily biodegradable and therefore most environment friendly foam.

Properties

| | |
|-------------------------|----------------------------------|
| Appearance | Viscous Liquid |
| pH | 6.5 - 8.5 |
| Specific Gravity | 1.01 to 1.05 gm/ml |
| Viscosity | Less than 100 mm ² /s |
| Pour Point | less than (-)5°C |
| Sludge Contents (% V/V) | Less than 0.25% |
| Low expansion (1%) | 1:10 |
| Medium expansion (2%) | 1:100 |
| High expansion (2%) | 1:1000 |

Application

IFP UNILIGHT SF is intended for use on Class B hydrocarbon fuels such as gasoline, kerosene, diesel etc. and Class A fires like Wood, Paper, Tyres etc with both fresh water and salt water. It is not recommended for use on fuels having water solubility like alcohols, ketones etc., but suitable to protect less hygroscopic liquids and hydrocarbons containing alcohol, like gasohols.

IFP UNILIGHT SF is suitable for use in different proportions depending on the suitability of the users. It can be used in 0.1-0.5% proportioning for use as wetting agent, as 1% for application in class A fires and CAFS system with optimum performance and as 2% as medium expansion and high expansion foam system. It can also be

used in combination with dry chemical agents to provide even better fire suppression performance.

Proportioning

IFP UNILIGHT SF 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.
- High Energy Foam System/ Compressed Air Foam System

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) and in original packed condition shelf life over 12 years is expected. Freezing and thawing will have no impact on the performance.

For storing IFP UNILIGHT SF, the following materials are recommended

SS-304, SS-316, Isophthalic Polyester Resin, Epoxy Resin, High Density Polyethylene.

Galvanized pipe and fittings must not be used in areas where undiluted concentrate will contact them since corrosion will result.

Compatibility

IFP UNILIGHT SF is compatible with soft, hard, brackish or salt water.

IFP UNILIGHT SF shall not be mixed with other manufacturer's foam concentrate except for use in emergency situations.

Environmental and Toxicological Information

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

For further details see IFP UNILIGHT SF Material Safety Data Sheet/Safety Data Sheet.

Standards

- GOST R50588-2012
- EN 1568

Ordering Information

| Part Number | Description | Volume, m ³ (ft ³) | Weight (kg) |
|-------------|-------------------------------|---|-------------|
| 114020-01 | Pails/Cans 20L (5.28 Gallon) | 0.028 (0.99) | 22.0 |
| 114020-02 | Pails/Cans 30L (7.93 Gallon) | 0.040 (1.40) | 33.0 |
| 114020-03 | Barrels 200L (52.84 Gallon) | 0.318 (11.23) | 217.2 |
| 114020-04 | IBC Tote 1000L (264.2 Gallon) | 1.386 (49.09) | 1097 |

Container capacity and seaworthy packing also complied with customers' requirements

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