

IFP UNILIGHT AFFF TYPE 3^{C6} (SELF-HEALING)

Aqueous Film Forming Foam Concentrate

Description

IFP UNILIGHT AFFF TYPE 3^{C6} (SELF-HEALING) a specially formulated non-toxic, clear liquid with no stratification or turbidity, is a fluoro-chemical foam concentrate, commonly known as AQUEOUS FILM FORMING FOAM CONCENTRATE (AFFF), which represents a major advancement in foam technology for effective extinguishment of Class A and B fires, as Low and Medium expansion foam. IFP UNILIGHT AFFF TYPE 3^{C6} is a unique combination of fluorochemical and hydrocarbon surfactant with C6 technology along with solvent, stabilizers and preservatives to have a superior fire knockdown performance on all types of hydrocarbon fires. The aqueous film formed spreads rapidly over the fuel surface giving a very rapid control and extinguishment. The inherent self sealing property re-seals any disturbed surface of burning liquid, a great advantage in rapid rescue. IFP UNILIGHT AFFF TYPE 3^{C6} do not have any PFOS or PFOA or its derivatives.

Properties

Appearance	Amber Colour Liquid
pH	7.0 - 8.0
Specific Gravity	1.00 to 1.04 gm/ml
Viscosity	Less than 10 cst
Spreading Co-efficient	More than 3.5
Sludge Contents (% V/V)	Nil
Pour Point*	(-) ² °C

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

Foam Properties

Expansion	≥ 7.0
25% drainage time	≥ 2 min 20 sec

Application

IFP UNILIGHT AFFF TYPE 3^{C6} is intended for use on Class B hydrocarbon fuels such as gasoline, kerosene, diesel etc. at a proportioning rate of 3% with fresh water and salt water. It is not recommended for use on fuels having considerable water solubility like alcohols, ketones etc.

IFP UNILIGHT AFFF TYPE 3^{C6} is suitable for use in special appliances like Crash Tenders/ RIV where rapid

extinguishment with limited quantity of foam is required. It can also be used in hydrocarbon storage tanks, process areas, warehouses, tanker loading areas and other local risks involving a spilled fuel fire. It can be used as wetting agent to combat fires in Class A materials like Wood, Paper, Tyres etc.

Proportioning

IFP UNILIGHT AFFF TYPE 3^{C6} 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.

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) a shelf life of 10-15 years is expected. Freezing and thawing will have no impact on the performance.

For storing IFP UNILIGHT AFFF TYPE 3^{C6}, 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 AFFF TYPE 3^{C6} 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.

IFP UNILIGHT AFFF TYPE 3^{C6} shall not be mixed with other manufacturer's foam concentrate except for use in emergency situations.

Environmental and Toxicological Information

IFP UNILIGHT AFFF TYPE 3^{C6} 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 UNILIGHT AFFF TYPE 3^{C6} concentrate or foam solution should be made in accordance with local government rules and regulations.

For further details see IFP UNILIGHT AFFF TYPE 3^{C6} Material Safety Data Sheet/ Safety Data Sheet.

Approvals and Listing

- Bureau of Indian Standard, BIS Marked, as per IS 4989:2018
- EN approved, as per EN 1568-3
- Underwriter's Laboratories Inc., UL Listed (UL 162), with following equipments
 - Foam Nozzles
 - In-line inductor
 - Fixed Foam Discharge Device
 - Foam Monitor
 - Foam water sprinkler
 - Bladder Tank
- Marine Approved by Llyods Register of Shipping, as per IMO MSC.1/Circ. 1312
- ICAO Level B

Standards

- ISO 7203-1
- UK Defence Standard 42-40/Issue-1
- US-MIL F-24385

Ordering Information

Part Number	Description	Volume, m ³ (ft ³)	Weight (kg)
101020-01	Pails/Cans 20L (5.28 Gallon)	0.028 (0.99)	21.6
101020-02	Pails/Cans 30L (7.93 Gallon)	0.040 (1.40)	32.4
101020-03	Barrels 200L (52.84 Gallon)	0.318 (11.23)	213.2
101020-04	IBC Tote 1000L (264.2 Gallon)	1.386 (49.09)	1077

Container capacity and seaworthy packing also complied with customers' requirements

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