

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

Alcohol Resistant Aqueous Film Forming Foam Concentrate

DESCRIPTION

IFP UNILIGHT AR-AFFF TYPE 3/3^{C6} (SELF-HEALING), commonly known as Alcohol Resistant Aqueous Film Forming Foam Concentrate, is specially formulated non-toxic, viscous foam liquid concentrate, for use in hydrocarbon as well as polar solvent fires. The foam concentrate contains special type of fluorochemical surfactant (C6 technology), hydrocarbon surfactant, solvent, stabilizer, biocide and polysaccharides. It produces aqueous film on hydrocarbon fuel to prevent the fuels vapors come in contact with air and forms a cohesive and regenerative polymeric barrier floats over the alcohol preventing the foam bubble for mixing with polar solvents. IFP UNILIGHT AR-AFFF TYPE 3/3^{C6} does not contain any PFOS or PFOA or derivatives.

PROPERTIES

Appearance	Light Orange Viscous Liquid
pH	7.0 - 8.0
Specific Gravity	1.00 to 1.03 gm/ml
Viscosity	Less than 800 cps
Spreading Co-efficient	More than 3.5
Sludge Contents (% V/V)	Nil
Pour Point	(-) ² °C

APPLICATIONS

IFP UNILIGHT AR-AFFF TYPE 3/3^{C6} is intended for use on Class B hydrocarbon fuels such as gasoline, kerosene, diesel etc. and polar fuels such as alcohols, aldehydes, ketones, ethers, esters etc. at a proportioning rate of 3% with fresh water and salt water. It is applicable with low and medium expansion discharge devices for covering and extinguishing fires of Class A and Class B. IFP UNILIGHT AR-AFFF TYPE 3/3^{C6} is suitable for use in special appliances like storage tanks, process areas, warehouses, loading areas, docs and other local risks involving a spilled fuel fire. It is a multipurpose foam and therefore it gives maximum protection against hazards in the fuel storage area irrespective of the type of the fuel.

Minimum Application Rates listed in UL Directory using 50 ft² Fire Test on hydrocarbon and polar solvent fuels are listed below.

<u>Fuel</u>	<u>Gpm/ft² (LPM/m²)</u>
Polar Solvents (U.L. Type II Application)*	
Methanol	0.10 (4.1)
Isopropyl Alcohol	0.13 (5.3)
Methyl Ethyl Ketone	0.15 (6.1)
Acetone	0.16 (6.6)
Hydrocarbons (U.L. Type III Application)**	
Heptane	0.10 (4.1)

* TYPE II APPLICATION - Discharge devices that do not delivers foam gently onto the burning liquid but with minimized submergence and restricted agitation of the surface as described in UL 162.

** TYPE III APPLICATION - Discharge devices that delivers the foam directly onto the liquid surface as described in UL 162.

PROPORTIONING

IFP UNILIGHT AR-AFFF TYPE 3/3^{C6} can easily be proportioned using conventional equipments

- Fixed and Portable In-line Inductors
- Balanced Pressure and In-line balanced pressure proportioning systems.
- Bladder tank proportioner.
- Around the pump inductor.
- Handline nozzles with fixed induction/ pick-up tubes.

DISCHARGE DEVICES

- Air aspirating discharge devices such as low expansion branchpipes, top pourer sets, rimseal foam pourers.
- Air aspirating and non air aspirating sprinkler heads and spray nozzles.
- Foam makers for use with Floating Roof Storage Tanks/Bund protection system.
- Non-aspirating discharge devices such as spray/fog branchpipes and nozzles, monitors. However, non-aspirated application is not recommended as the primary method of attack for major fires involved with polar fuels where a stable foam cover is essential.

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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 20-25 years is expected. Freezing and thawing will have no impact on the performance. For bulk storing materials like SS-304, SS-316, Isophthalic Polyester Resin, Epoxy Resin, High Density Polyethylene are recommended. Galvanized pipe and fittings must not be used in areas where undiluted concentrate will contact them since corrosion will result.

COMPATIBILITY

IFP UNILIGHT AR-AFFF TYPE 3/3^{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 AR-AFFF TYPE 3/3^{C6} shall not be mixed with other manufacturers foam concentrate except for use in emergency situations.

ENVIRONMENTAL AND TOXICOLOGICAL INFORMATION

IFP UNILIGHT AR-AFFF TYPE 3/3^{C6} is biodegradable, low toxicity and does not contain PFOS. 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 AR-AFFF TYPE 3/3^{C6} concentrate or foam solution should be made in accordance with local government rules and regulations.

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

APPROVALS AND LISTING

- Underwriter's Laboratories Inc., UL Listed, as per UL 162
- Bureau of Indian Standard, BIS Marked, as per IS 4989 (Pt-4):2003
- EN approved, as per EN 1568-3&4
- Type approved by Indian Register of Shipping, as per IMO MSC.1/Circ. 1312

OTHER STANDARDS

- FM 5130
- ISO 7203 - 1 & 3

STANDARD PACKING SPECIFICATION (UL Recognized Component)

Container Shape	Rectangular	Rectangular	Cylindrical	Rectangular
Material	HM-HDPE	HM-HDPE	HM-HDPE	HM-HDPE
Capacity	20 ltr	30 ltr	200 ltr.	1000 ltr.
Empty Weight	1.2 kgs	1.8 kgs	9.2 kgs	57 kgs
Nominal Dimensions (mm)	L W H 280 250 390	L W H 320 290 425	D H 590 915	L W H 1200 1000 1155

Container capacity and seaworthy packing also complied with customers' requirements

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