3% AFFF (AQUEOUS FILM FORMING FOAM)
HD AFFF 3FZ-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AFFF 3FZ-C6 is a synthetic Aqueous Film Forming Foam concentrate, specially formulated with new generation C6-based fluorinated surfactants, which are environmentally safer. It is suitable for storage and use at low temperature up to -18°C (0°F). But during the use one needs to ensure that water is made flowable by using anti-freezing agent.

HD AFFF 3FZ-C6 is formulated with C6 based fluorinated surfactants, hydrocarbon surfactants and solvents. It produces a thin yet strong film on Hydrocarbon fuel surface, sealing the surface and preventing fuel vapour release.

The foam spreads rapidly on fuel surface due to positive spreading provided by fluoro surfactants while the foam blanket excludes oxygen from the fuel surface and provides cooling effect leading to fast flame knockdown and extinguishment.

HD AFFF 3FZ-C6 is intended for use at 3% solution in fresh, sea/salt or hard water.

APPLICATION

HD AFFF 3FZ-C6 is suitable for Class B fires of hydrocarbons like crude oil, gasoline, diesel, aviation fuel, kerosene etc. in sectors like Refineries, Tank Terminals, Process Areas, Power Plants, Port Terminals, Airports, Flammable Liquid Containment Area, Offshore and Onshore Installations etc.

HD AFFF 3FZ-C6 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper and tyres.

PROPORTIONING

HD AFFF 3FZ-C6 can be used with various types of Foam Proportioning & Discharge Devices such as Portable and Fixed Foam Proportioners, Branch Pipes, Foam Bladder Tanks, Ratio Controllers and Around-the-Pump Proportioners, Spray Fog Nozzles, Monitors, Foam Makers, Foam Chambers, Foam Pourers, Rim Seal Foam Pourers, Foam-Water Sprinklers etc.

APPROVALS AND LISTINGS

UL Listed as per UL-162 standard

STORAGE AND SHELF LIFE

It has a maximum shelf life of 15 years when stored in its original container. Storage temperature should be below 49°C. The product can withstand intermittent short time exposure up to 60°C. Ensure that the containers are not directly exposed to sunlight and heat. It is unaffected by freeze/thaw cycles.

TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Clear liquid to Amber Colour liquid
Specific Gravity @20°C (68°F)	1.02 ± 0.02
pH @ 20°C (68°F)	8.0 ± 1.0
Viscosity @ 20°C (68°F)	<10 cSt
Pour Point	Flows at -18°C
Expansion	>7
25% Drainage **	>2 min 15 sec

NOTE

** Value depends equipment used and system parameters

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro-surfactants, HD AFFF 3FZ-C6 is environmentally safer and low toxic to the aquatic organisms. It is bio-degradable.

Local regulations should be complied with for discharge into common drainage/sewage systems.

Refer MSDS for additional information.

PACKAGING

The product is available in 20L Jerry Cans, 200L Drums, 1000L Tote and bulk packing.

LIMITED WARRANTY

HD FIRE PROTECT LIMITED (Formerly known as HD FIRE PROTECT PVT. LTD.) hereby referred to as HD FIRE, warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer's warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer's representatives. HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD FIRE's product liability exceed an amount equal to the sale price.
The foregoing warranty is exclusive and in lieu of all other warranties and representation whether expressed, implied, oral or written, including but not limited to, any implied warranties or merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

NOTICE :
The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.
The information provided by us is to the best of our knowledge and belief, and consist of general guidelines only. Site handling and installation control is not in our scope. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.
Product development is a continuous programme of HD FIRE PROTECT LIMITED. and hence the right to modify any specification without prior notice is reserved with the company.

HD FIRE PROTECT LIMITED
Protecting What Matters Most to You

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