

# HD AFFF FOAM CONCENTRATE



## **AQUEOUS FILM FORMING FOAM CONCENTRATE (AFFF 3% and 6%)**

HD AFFF is an Aqueous Film Forming Foam concentrate, which produces thin, yet strong film on the surface of hydrocarbon fuels thus sealing the fuel surface and preventing fuel vapour release. Due to presence of Fluorocarbon surfactant the spreading characteristic of the foam is such that a positive, fast spreading coverage action takes over the fuel surface, resulting in fast extinguishment. The synthetic base imparts good shelf life of the concentrate free from settling ingredients and bad odour.

### APPLICATIONS:

- Available as 3% & 6% concentrates
- Can be used with fresh water and sea water
- Suitable for application with standard low expansion foam generating equipments of both aspirating and non-aspirating types
- Can be used in fixed sprinkler system for protection against risks of flammable liquids
- The high foaming characteristics, fast spreading combined with film forming ability makes it an ideal choice as for rapid extinguishment and fast coverage

### COMPATIBILITY:

HD AFFF is compatible with dry chemical powders and other equivalent foams.

HD AFFF has compatibility approval (certificate) with following UL Listed equipments:

- UL-Listed Sprinklers
- UL-Listed Bladder Tank
- UL-Listed Nozzle
- UL-Listed Proportioners & Inductors
- UL-Listed Foam Monitor

### SHELF-LIFE:

HD AFFF has a minimum shelf life of 15 years, considering tropical conditions and if properly stored in its original container or tanks suitable for storage. Refer Technical Bulletin for storage guidelines.

### STORAGE:

Storage temperature should be lower than 49 °C. The product can withstand short time exposure to temperature up to 60 °C. Ensure containers are not directly exposed to sunlight & heat for longer period. It is unaffected by freeze/thaw cycles.

### ECOLOGY:

HD AFFF is bio-degradable and low toxic to the aquatic organisms. It is environmentally safe.

HD AFFF is free from environmental hazards.

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## PHYSICAL & CHEMICAL PARAMETERS:

PROPERTY	3%	6%
APPEARANCE	Amber coloured liquid	Amber coloured liquid
pH @ 20 °C	6.5 - 8.5	6.5 - 8.5
Sp. Gravity @ 20 °C	1.00 to 1.03	1.00 to 1.03
Freezing Point	0 °C	0 °C
Viscosity @ 20 °C	Less than 5 cSt	Less than 5 cSt
Sediment	Maximum 0.25%	Maximum 0.25%
*Expansion Ratio	≥ 7 : 1	≥ 7 : 1
*Drainage (25 %)	≥ 2 min	≥ 2 min

\* Expansion & Drainage values depend on the equipments & the application conditions.

## PACKING:

UL recognised HDPE containers of 30 L/ 200 L.

## DISPOSAL:

HD AFFF can be successful treated in biological waste water treatment systems. Local regulations should be complied with for discharge into common drainage/sewage systems.

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## LIMITED WARRANTY

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.

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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 are to the best of our knowledge and belief, and are general guidelines only. Site handling and installation control is beyond our reach. 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 PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.



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