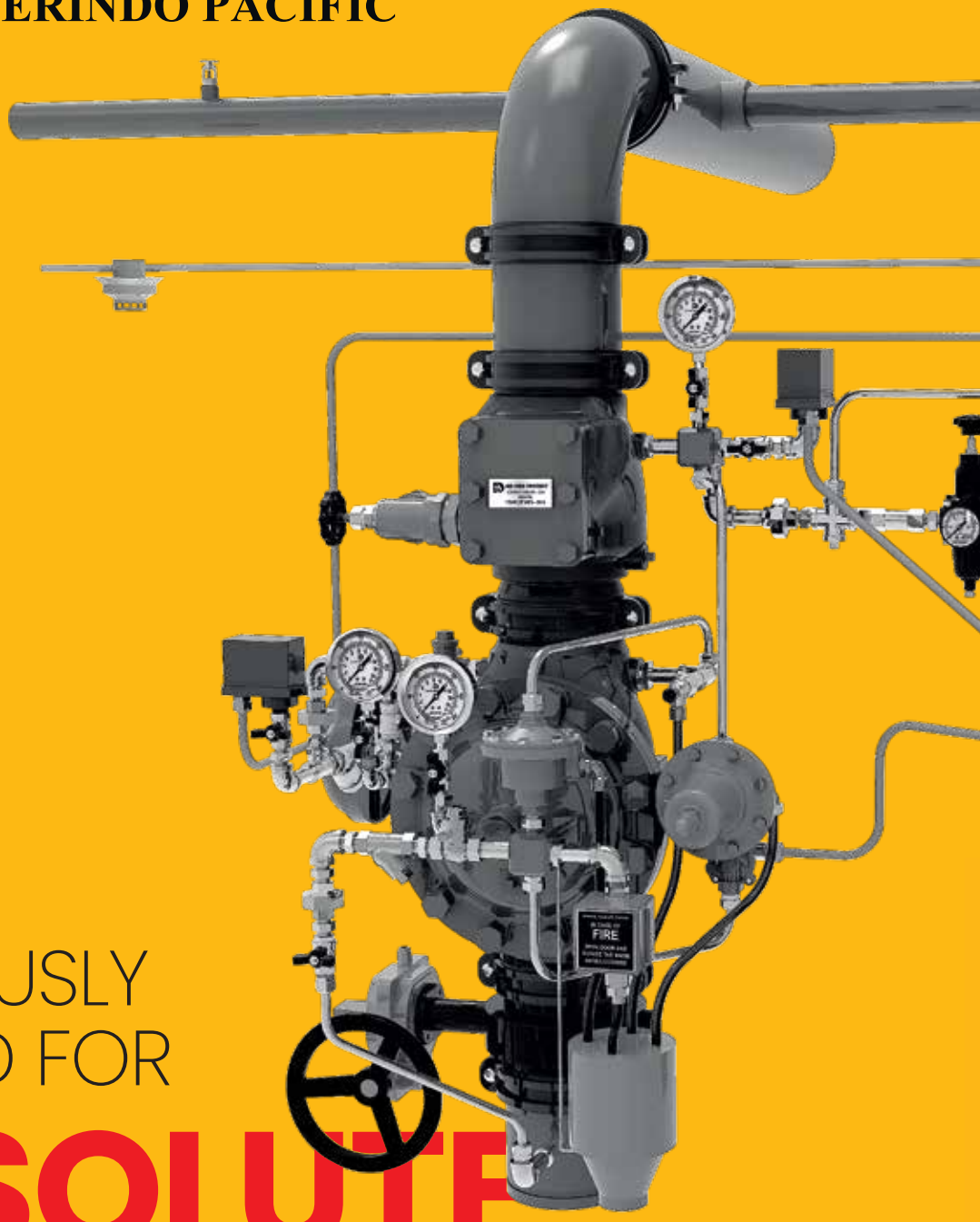
PT. SABERINDO PACIFIC



INGENIOUSLY
CRAFTED FOR

ABSOLUTE PROTECTION

HD FIRE PROTECT®
Protecting what matters most to you

3%x3% AR SFFF (SYNTHETIC FLUORINE FREE FOAM)
HD AR SFFF F3 3x3

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AR SFFF F3 3x3 is a superior quality 3% Synthetic Fluorine-free foam concentrate designed for extinguishing high-risk areas, where both Hydrocarbon and Polar Solvents are stored, processed, or transported.

HD AR SFFF F3 3x3 foam concentrate is based on environmentally friendly synthetic formulation and comprises of specialty hydrocarbon surfactants, stabilizers and preservatives to create a long-lasting vapour sealing blanket of foam, which blocks the oxygen supply to the fuel & slow drainage retains the water content in the bubbles to cool the fuel surface reducing the evaporation, thus helping in providing an effective control and extinguishing of both hydrocarbon and polar solvent fires and prevention of fire re-ignition. A polymeric membrane is formed on polar solvent to effectively extinguish these types of fires.

HD AR SFFF F3 3x3 is a next generation foam concentrate used for multipurpose fire risks. It is non-toxic and totally free from fluorinated surfactants and fluorinated polymers (PFAS free). It is a 100% biodegradable product and giving maximum performance. This has been designed for extinguishing and securing Class B flammable liquid fires on Heptane, Acetone, IPA & Ethyl Alcohol with both Potable & Sea water. It also effectively covers Class A fire risks which involve involving combustible materials such as wood, cloth, rubber, paper and plastic material.

This new formulation provides superior flexibility, good firefighting performance and environmental friendly, balancing it with high performance and having a minimum environmental impact.

It fights fire in the following ways:

- Rapid spreading and coverage provide effective control & extinguishment on both Hydrocarbons & Polar Solvents.
- Provides stable blanketing effect over a longer time thereby cools the fuel surface, suppresses combustible vapour release, and reduces rekindling risk.
- Superior wetting & penetrating properties of the foam acts as an insulating barrier and reduces heat radiation.

APPLICATION

HD AR SFFF F3 3x3 is an ideal fire extinguishing agent capable of extinguishing all types of fire risks which are stored, processed, or transported including polar solvents (like Isopropyl Alcohol, Ketones, Esters, Ethers, etc.).

It is also used as a superior wetting agent in fighting class A fires like wood, cloth, paper, and rubber.



HD AR SFFF F3 3x3 due to its special surfaceactive agents, provides a very slow drain time which helps for effective cooling & stronger penetration of the product.

HD AR SFFF F3 3x3 cuts the oxygen supply; stopping its free combustion & helping to extinguish the fire effectively.

PROPORTIONING & DISCHARGE DEVICES

HD AR SFFF F3 3x3 is recommended to be used as 3% both for hydrocarbon and polar solvents.

HD AR SFFF F3 3x3 can be inducted with Portable or Fixed Inline Inductors, Ratio Controllers, and Foam Bladder Tanks. It can be used with air aspirating discharge devices including Low Expansion Foam Nozzles, Sprinklers, Foam-Monitors, and Fixed Foam Discharge Devices. When used in systems, the same should be designed as per the recommended minimum application rate, its application duration & type of discharge devices.

HD AR SFFF F3 3x3 is a newly launched foam concentrate. Please check with HD Sales on UL approval details and compatibility information with respect to specific foam hardware.

TYPICAL PROPERTIES @20°C (68°C)

PARAMETERS	VALUES
Appearance	Light Yellow Viscous liquid
Specific Gravity	1.020 ± 0.02
pH Value	8.00 ± 1.00
Viscosity*	1400 ± 300 cPs
Lowest used Temperature*	1.7°C (35°F)
Freezing Point	-2°C
Expansion Ratio**	6:1 - 10:1
25% Drainage time**	>45 min.

* Spindle 4, rpm 60
** When tested with UNI 86 Test Nozzle

COMPATIBILITY

HD AR SFFF F3 3x3 can be used with soft or hard, fresh, sea or brackish water. It is recommended not to be mixed with any other type of foam concentrate in long term storage.

Most expanded foams are compatible for side-by-side application during an incident and can be applied in sequence or simultaneously.

STORAGE AND SHELF LIFE

It has a shelf life of more than 10 years when stored in its original container.

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air, storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is within the temperature range of 35°F to 120°F (2°C to 49°C).

All foam concentrates should be tested annually & the test be carried out by an Approved laboratory to the relevant standards.

Exposure to the direct sunlight should be avoided and storage location should be preferred where the fluctuations of temperature should be as stable as possible.

ENVIRONMENTAL INFORMATION

HD AR SFFF F3 3x3 is PFOS, PFOA free and is environmentally safe, 100% bio–degradable, low toxic to the aquatic organisms and is manufactured without any fluorinated surfactants and fluorinated polymers or other organo-halogens and does not contain any PFAS.

HD AR SFFF F3 3x3 is biodegradable, however as care is taken, we should prevent it to be discharged from entering ground water, surface water, or storm drains. Local regulations should be complied with for discharge into common drainage/sewage systems. Refer MSDS for additional information.

NOTE:

When using foam pumps (positive displacement, centrifugal, or foam dosing), it is important to note that certain operating conditions may increase foam viscosity, which could potentially impact performance. To ensure optimal results, we recommend verifying compatibility and conducting tests under actual application conditions. If you have any questions, please feel free to contact our team.

PACKAGING

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

APPROVALS AND LISTINGS

UL Listed as per UL-162 standard.
It also meets the requirement of IMO-MSC. 1/Circ. 1312

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.

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HD FFFP FOAM CONCENTRATE

HD FIRE PROTECT LIMITED

FILM FORMING FLUORO PROTEIN FOAM CONCENTRATE (FFFP)

HD FFFP is based on proteineous material, which gives good sealing and excellent burn back resistance. The limitation of protein foam regarding slow spreading is overcome by incorporating fluorinated surfactant in the formulation; spreading is improved without affecting foam stability. HD FFFP is formulated with hydrolysed protein, fluoro chemicals, metal salts, special stabilizers and preservatives to give the best performance and satisfactory storage. It is highly reliable, cost effective and efficient fire extinguishing agent which gives rapid extinguishment, high resistance to heat and fuel pick- up.

HD FFFP is suitable for fighting fires of non-polar, flammable solvents.

APPLICATIONS:

- HD FFFP is available as 3 % and 6% foam concentrate
- It can be used with soft or hard, fresh, brackish or sea water.
- It can be applied with the help of all types of nozzles, inductors, foam chambers, balance pressure variable flow proportioners, balanced pressure bladder tank proportioners and around the pump proportioners, low expansion branch pipes, monitors, top pourer sets, rim seal foam pourers, foam/water sprinklers etc.
- It is recommended for use as stated in NFPA 11, 16, 403 & 409.
- An ideal choice for sub-surface application as it has very high resistance to the fuel pick up.
- Used at Airports, Military bases, Hydrocarbon storage tanks, Process areas, Road/Rail loading racks, Marine Terminals, Tank farms, oil jetties, refineries and offshore oil platforms.

COMPATIBILITY:

HD FFFP is compatible with all types of dry powders and equivalent foams.

SHELF-LIFE:

HD FFFP has a minimum shelf life of 5-7 years in tropical conditions and if properly stored in its original container or tanks suitable for storage. Refer Technical Bulletin for storage condition guidelines.

STORAGE:

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

ECOLOGY:

HD FFFP is environmentally safe. It is bio–degradable and low toxic to the aquatic organisms.

PACKING:

UL recognized HDPE containers of 20, 30 Liters or 200 Liters.

DISPOSAL:

HD FFFP can be successfully treated in biological waste water treatment systems. Local regulations put forth by the authorities having jurisdiction should be complied with for discharge in drainage/sewage systems.

HD FFFP FOAM CONCENTRATE

HD FIRE PROTECT LIMITED

PHYSICAL PROPERTIES

PROPERTY	3 % & 6%
APPEARANCE	Dark brown coloured liquid
pH @ 20°C	6.5 – 7.5
Sp. Gravity @ 20 °C	1.12 to 1.14
Freezing Point	-7°C
Viscosity @ 20 °C	Less than 30 cSt
Sediment	Maximum 0.5%
**Expansion Ratio	≥7
**Drainage (25 %)	≥3 min

** Expansion & Drainage values depend on equipments, application conditions & application density.

LIMITED WARRANTY

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

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AFFF 3-C6 is a synthetic Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

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

APPLICATION

HD AFFF 3-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 3-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 3-C6 can be used with all 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 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.

COMPATIBILITY

HD AFFF 3-C6 is compatible with dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination.



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)	<2cSt
Pour Point*	Flows at –2°C
Expansion **	>7
25% Drainage **	>2 min 15 sec

NOTE

* Available in Freeze Protected Type

** Value depends equipment used and system parameters

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AFFF 3-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

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6% AFFF (AQUEOUS FILM FORMING FOAM)
HD AFFF 6-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AFFF 6-C6 a synthetic Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

HD AFFF 6-C6 is formulated with C6 based fluorinated surfactants, hydrocarbon surfactants and solvents. It produces 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 6-C6 is intended for use at 6% solution in fresh, sea/salt or hard water.

APPLICATION

HD AFFF 6-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 6-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 6-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

COMPATIBILITY

HD AFFF 6-C6 is compatible with dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination.

STORAGE AND SHELF LIFE

It has a 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)	1.01 ±0.02
pH @ 20°C (68°F)	8.0 ± 1.0
Viscosity @ 20°C (68°F)	<2cSt
Pour Point*	Flows at –2°C
Expansion **	>7
25% Drainage **	>2 min 30 sec

* Also available in Freeze Protected Type
** Value depends equipment used and system parameters

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AFFF 6-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

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3%x3% AR-AFFF (ALCOHOL RESISTANT AQUEOUS FILM FORMING FOAM)
HD AR-AFFF 3X3-C6 (UL LISTED)

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AR-AFFF 3X3-C6 is an Alcohol Resistant Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

HD AR-AFFF 3X3-C6 is formulated with C6 based fluoro surfactants, hydrocarbon surfactants, polysaccharides and solvents. It produces thin yet strong aquous 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.

Polysaccharide film is produced when the foam solution comes in contact with a water miscible polar solvent. This polymer film acts as raft to support the foam blanket on the surface of the polar fuel. Foam blanket cuts off oxygen from fuel surface and cools it thereby providing fast knockdown and fire extinguishment.

HD AR-AFFF 3X3-C6 is intended for use at 3% solution in fresh, sea/salt or hard water for both hydrocarbon and polar solvents fires.

APPLICATION

HD AR-AFFF 3X3-C6 is suitable for Class B fires of Hydrocarbons like crude oil, gasoline, diesel, aviation fuel, kerosene etc. and polar solvents like alcohols, ketones, esters, acetates etc. It is also recommended for aromatic hydrocarbon fires of benzene, xylene, toluene & their derivatives.

HD AR-AFFF 3X3-C6 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper, and tyres.

PROPORTIONING

HD AR-AFFF 3X3-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

COMPATIBILITY

HD AR-AFFF 3X3-C6 is compatible with dry powders and other equivalent foams.



TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Viscous liquid (Amber Colour)
Specific Gravity @20°C (68°F)	1.02 ± 0.02
pH @ 20°C (68°F)	8.0 ± 1.0
Viscosity @ 20°C (68°F), #4, 60 rpm	1200 ± 500 cPs
Pour Point*	Flows at 0°C
Expansion **	>7
25% Drainage **	>5 min 30 secs

* Also available in Freeze Protected Type
** Value depends on equipment used and system parameters

STORAGE AND SHELF LIFE

It has a shelf life of 10 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. Refer Storage Conditions for additional information on storage.

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AR-AFFF 3X3-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, 1000 L Tote and bulk packing.

LIMITED WARRANTY

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3% FP (FLUOROPROTEIN FOAM)
HD FP 3-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HD FP 3-C6 is based on protein material, which gives good sealing and excellent burn back resistance. The spreading of the foam is improved by incorporating new generation C6 based fluorinated surfactant in the formulation without affecting heat stability.

HD FP 3-C6 is formulated with hydrolysed protein, C6 based fluorinated surfactants, metal salts, special stabilizers and preservatives to give best performance and satisfactory storage. It is highly reliable, cost effective and efficient on massive hydro-carbon fires. It gives resistance to fuel pickup and is suitable for sub-surface applications.

HD FP 3-C6 is suitable for long pre-burn fires on Petroleum Tank Farm fires, Oil Jetties, Refineries and Offshore oil platforms.

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

APPLICATION

HD FP 3-C6 is suitable for Class B fires of Hydrocarbons in fixed roof tanks like crude oil, gasoline, diesel, aviation fuel, kerosene etc. in sectors like refineries, tank terminals, process areas, power plants, port terminals, airports, offshore and onshore installations, etc.

PROPORTIONING

HD FP 3-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 LISTING

UL Listed as per UL-162 standard

COMPATIBILITY

HD FP 3-C6 is compatible with soft or hard, fresh, brackish or sea water, dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination.

STORAGE AND SHELF LIFE

It has a shelf life of 7 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	Dark brown liquid
Specific Gravity @20°C (68°F)	1.13 ± 0.02
pH @ 20°C (68°F)	7.0 ± 0.5
Viscosity @ 20°C (68°F), #4, 60 rpm	< 20 cSt
Sediment	< 0.30 %
Pour Point*	Flows at -7°C
Expansion **	>6
25% Drainage **	>3 min 45 sec

* Available in Freeze Protected Type
** Value depends equipment used and system parameters

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro-surfactants, HD FP 3-C6 is environmentally safe, bio–degradable, low toxic to the aquatic organisms.

Local regulations should be complied with for discharge into common drainage/sewage systems. Refer MSDS for additional information.

PACKAGING

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

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.

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6% FP (FLUOROPROTEIN FOAM)
HD FP 6-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HD FP 6-C6 is based on protein material, which gives good sealing and excellent burn back resistance. The spreading of the foam is improved by incorporating new generation C6 based fluorinated surfactant in the formulation without affecting heat stability.

HD FP 6-C6 is formulated with hydrolysed protein, C6 based fluorinated surfactants, metal salts, special stabilizers and preservatives to give best performance and satisfactory storage. It is highly reliable, cost effective and efficient on massive hydro-carbon fires. It gives resistance to fuel pickup and is suitable for sub-surface applications.

HD FP 6-C6 is suitable for long pre-burn fires on Petroleum Tank Farm fires, Oil Jetties, Refineries and Offshore oil platforms.

HD FP 6-C6 is intended for use at 6% solution in fresh, sea/salt or hard water.

APPLICATION

HD FP 6-C6 is suitable for Class B fires of Hydrocarbons in fixed roof tanks like crude oil, gasoline, diesel, aviation fuel, kerosene etc. in sectors like refineries, tank terminals, process areas, power plants, port terminals, airports, offshore and onshore installations, etc.

PROPORTIONING

HD FP 6-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 LISTING

UL Listed as per UL-162 standard

COMPATIBILITY

HD FP 6-C6 is compatible with soft or hard, fresh, brackish or sea water, dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination.

STORAGE AND SHELF LIFE

It has a shelf life of 7 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	Dark brown liquid
Specific Gravity @20°C (68°F)	1.09 ± 0.02
pH @ 20°C (68°F)	7.0 ± 0.5
Viscosity @ 20°C (68°F)	< 20 cSt
Sediment	< 0.30 %
Pour Point*	Flows at -7°C
Expansion **	>6
25% Drainage **	>5 min 15 sec

* Available in Freeze Protected Type
** Value depends equipment used and system parameters

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro-surfactants, HD FP 6-C6 is environmentally safe, bio–degradable, low toxic to the aquatic organisms.

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.
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1%x3% AR-AFFF (ALCOHOL RESISTANT AQUEOUS FILM FORMING FOAM)
HD AR-AFFF 1X3-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AR-AFFF 1X3-C6 is an Alcohol Resistant Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

HD AR-AFFF 1X3-C6 is formulated with C6 based Fluoro surfactants, Hydrocarbon surfactants, polysaccharides and solvents. It produces thin yet strong aquous 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.

Polysaccharide film is produced when the foam solution comes in contact with a water miscible polar solvent. This polymer film acts as raft to support the foam blanket on the surface of the polar fuel. Foam blanket cuts off oxygen from fuel surface and cools it thereby providing fast knockdown and fire extinguishment.

HD AR-AFFF 1X3-C6 is intended for use at 1% solution in fresh, sea/salt or hard water for hydrocarbon and 3% solution in fresh, sea/salt or hard water for polar solvents fires.

APPLICATION

HD AR-AFFF 1X3-C6 is suitable for Class B fires of Hydrocarbons like crude oil, gasoline, diesel, aviation fuel, kerosene etc. and polar solvents like alcohols, ketones, esters, acetates etc. It is also recommended for aromatic hydrocarbon fires of benzene, xylene, toluene & their derivatives.

HD AR-AFFF 1X3-C6 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper, and tyres.

PROPORTIONING

HD AR-AFFF 1X3-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, 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

COMPATIBILITY

HD AR-AFFF 1X3-C6 is compatible with dry powders and other equivalent foams.



TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Viscous liquid (Amber Colour)
Specific Gravity @20°C (68°F)	1.02 ± 0.02
pH @ 20°C (68°F)	8.0 ± 1.0
Viscosity @ 20°C (68°F), #4, 60 rpm	1400 ± 200 cPs
Pour Point*	Flows at 0°C
Expansion **	>7
25% Drainage **	>5 min 30 secs

* Also available in Freeze Protected Type

** Value depends on equipment used and system parameters

STORAGE AND SHELF LIFE

It has a shelf life of 10 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. Refer Storage Conditions for additional information on storage.

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AR-AFFF 1X3-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, 1000 L 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.
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1% AFFF (AQUEOUS FILM FORMING FOAM)
HD AFFF 1-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AFFF 1-C6 is a synthetic Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

HD AFFF 1-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 and the foam blanket excludes oxygen from the fuel surface and provides cooling effect leading to fast flame knockdown and extinguishment.

HD AFFF 1-C6 is intended for use at 1% solution in fresh, sea/salt or hard water.

APPLICATION

HD AFFF 1%-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 1-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 1%-C6 can be used with all types of Foam Proportioning & Discharge Devices such as Portable and Fixed (In-line) Proportioners, Branch Pipes, Balance pressure variable flow proportioners, Bladder Tanks, Ratio Controllers and around-the-pump proportioners, Spray Fog Nozzles, Monitors, Foam Makers, Foam Chambers, Foam Pourers, Rim seal Foam Pourers and Sprinklers.

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.

COMPATIBILITY

HD AFFF 1-C6 is compatible with dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination.



TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Amber Colour
Specific Gravity @20°C (68°F)	1.00 to 1.06
pH @ 20°C (68°F)	6.5 to 8.5
Viscosity @ 20°C (68°F)	<7cSt
Pour Point*	Flows at –6.7°C
Expansion **	>7
25% Drainage **	>2 min

NOTE

* Available in Freeze Protected Type

** Value depends equipment used and system parameters

APPROVALS AND LISTINGS

UL Listed as per UL-162 standard

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AFFF 1-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

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

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AFFF 3F-C6 is a synthetic Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

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

APPLICATION

HD AFFF 3F-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 3F-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 3F-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 and FM Approved

COMPATIBILITY

HD AFFF 3F-C6 is compatible with dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination. For installation of Foam & Foam Equipments, refer NFPA-11 & 25. FM Approved foam extinguishing system configurations are intended for applications supported by FM Global Property Loss Prevention Data sheets 4-12, 7-29, 7-32 and 7-93.



TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Clear liquid to Amber Colour liquid
Specific Gravity @25°C (77°F)	1.02 ± 0.02
pH @ 25°C (77°F)	8.0 ± 1.0
Viscosity @ 25°C (77°F)	<3cSt
Pour Point*	Flows at –2°C
Expansion **	>7
25% Drainage **	>2 min 15 sec

NOTE

* Available in Freeze Protected Type

** Value depends equipment used and system parameters

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.

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AFFF 3F-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

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3% AFFF (AQUEOUS FILM FORMING FOAM)
HDFP-AFFF-3-C6

HD FIRE PROTECT LIMITED

DESCRIPTION

HDFP AFFF-3-C6 is a synthetic Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

HDFP AFFF-3-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.

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

APPLICATION

HDFP AFFF-3-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.

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

PROPORTIONING

HDFP AFFF-3-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

COMPATIBILITY

HDFP AFFF-3-C6 is compatible with dry powders and other equivalent foams. It is suitable for twin agent application systems, separately or in combination.



TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Amber Colour liquid
Specific Gravity @25°C (77°F)	1.02 ± 0.02
pH @ 25°C (77°F)	7.0 - 8.0
Viscosity @ 25°C (77°F)	< 10cSt
Pour Point	Flows at -2°C
Expansion **	>6
25% Drainage **	>2 min

NOTE

** Value depends equipment used and system parameters

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.

ENVIRONMENTAL INFORMATION

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

HDFP AFFF-3-C6 does not contain any PFOA, PFOS or its derivatives.

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

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3%x3% AR-AFFF (ALCOHOL RESISTANT AQUEOUS FILM FORMING FOAM)
HD AR-AFFF 3X3-C6 (UL LISTED & FM APPROVED)

HD FIRE PROTECT LIMITED

DESCRIPTION

HD AR-AFFF 3X3-C6 is an Alcohol Resistant Aqueous Film Forming Foam concentrate, specially formulated with new generation C6 based fluorinated surfactants which are environmentally safer.

HD AR-AFFF 3X3-C6 is formulated with C6 based fluoro surfactants, hydrocarbon surfactants, polysaccharides and solvents. It produces thin yet strong aquous 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.

Polysaccharide film is produced when the foam solution comes in contact with a water miscible polar solvent. This polymer film acts as raft to support the foam blanket on the surface of the polar fuel. Foam blanket cuts off oxygen from fuel surface and cools it thereby providing fast knockdown and fire extinguishment.

HD AR-AFFF 3X3-C6 is intended for use at 3% solution in fresh, sea/salt or hard water for both hydrocarbon and polar solvents fires.

APPLICATION

HD AR-AFFF 3X3-C6 is suitable for Class B fires of Hydrocarbons like crude oil, gasoline, diesel, aviation fuel, kerosene etc. and polar solvents like alcohols, ketones, esters, acetates etc. It is also recommended for aromatic hydrocarbon fires of benzene, xylene, toluene & their derivatives.

HD AR-AFFF 3X3-C6 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper, and tyres.

PROPORTIONING

HD AR-AFFF 3X3-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

COMPATIBILITY

HD AR-AFFF 3X3-C6 is compatible with dry powders and other equivalent foams.



TYPICAL PROPERTIES

PARAMETERS	VALUES
Appearance	Viscous liquid (Amber Colour)
Specific Gravity @25°C (77°F)	1.02 ± 0.02
pH @25°C (77°F)	8.0 ± 1.0
Viscosity @25°C (77°F), #4, 60 rpm	1050 ± 300 cSt
Pour Point*	Flows at 0°C
Expansion **	>7
25% Drainage **	>5 min 30 secs

* Also available in Freeze Protected Type
** Value depends on equipment used and system parameters

FM Approved foam extinguishing system configurations are intended for applications supported by FM Global Property Loss Prevention Data sheets 4-12, 7-29, 7-32 and 7-93.

STORAGE AND SHELF LIFE

It has a shelf life of 10 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. Refer Storage Conditions for additional information on storage.

ENVIRONMENTAL INFORMATION

Being based on C6 fluoro surfactants, HD AR-AFFF 3X3-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, 1000 L 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.

SERVING

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COUNTRIES
WORLDWIDE



HD FIRE PROTECT

Protecting what matters most to you

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