



USAFE GREEN

AR-AFFF (1x3% - 3x3% - 3x6%)

IS4989:2018



CM/L-7200182207

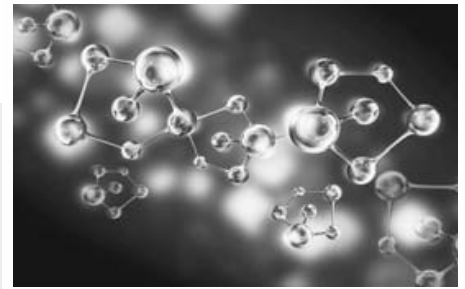


Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF) Concentrate

USAFE GREEN AR-AFFF 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, 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. USAFE GREEN AR-AFFF C6 does not contains any PFOS or PFOA or derivatives. AR-AFFF is also known as ARC (Alcohol Resistant Concentrate), ATC (Alcohol Type Concentrate), AGFFF (Aqueous Gel Film Forming Foam), MPF (Multipurpose Foam) or UF (Universal Foam).

APPLICATIONS

USAFE GREEN AR-AFFF is intended for use on Class B hydrocarbon fuels such as gasoline, kerosene, diesel etc. at a proportioning rate on polar fuels such as alcohols, aldehydes, ketones, ethers, esters etc. at a 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. USAFE GREEN AR-AFFF 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.



C6 Fluorosurfactants

These are the most effective agents currently available to tackle serious flammable liquid fires, providing fire fighter safety and asset protection. USAFE foams containing C6 surfactants utilise the very latest in fire fighting foam technologies, developed and refined specifically to lower the environmental impact without reducing performance.

PROPORTIONING

USAFE GREEN AR-AFFF can easily be proportioned using conventional equipments

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



Fixed Proportioning System



Foam Chambers & Monitors



Nozzles & Sprinklers

COMPATIBILITY

USAFE GREEN AR-AFFF 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.

USAFE GREEN AR-AFFF shall not be mixed with other manufacturers foam concentrate except for use in emergency situations.

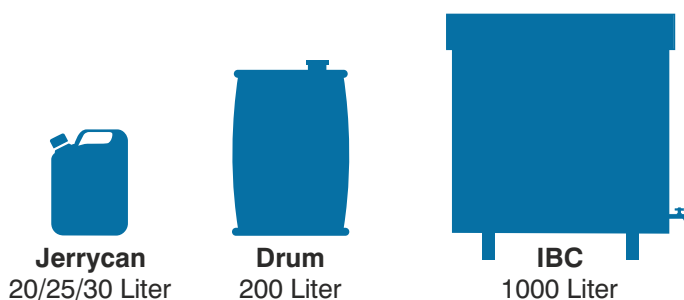
PHYSICAL PROPERTIES

PRODUCT	AR - AFFF 1 x 3	AR - AFFF 3 x 3	AR - AFFF 3 x 6
USE CONCENTRATION	1% - 3%	3%	3% - 6%
SPECIFIC GRAVITY	1.05±0.05	1.05±0.05	1.02±0.02
pH @ 20°C	7.5±0.5	7.5±0.5	7.5±0.5
VISCOSITY @ 20°C	1750±500 CST	1750±500 CST	1500±500 CST
FREEZING POINT	-2°C	-2°C	-2°C
POUR POINT	-1°C	-1°C	-1°C
STORAGE TEMPERATURE	+1.7°C MINIMUM +50°C MAXIMUM	+1.7°C MINIMUM +50°C MAXIMUM	+1.7°C MINIMUM +50°C MAXIMUM
FOAM EXPANSION	LOW > 7	LOW > 7	LOW > 7
25% DRAINAGE TIME	8 MINUTES 12 MINUTES	8 MINUTES	8 MINUTES 12 MINUTES

STORAGE & HANDLING

USAFE GREEN AR-AFFF may be stored in its shipping container without change in its original physical or chemical characteristics. Shelf life is expected to be 10 years or more when stored at recommended temperatures and in original containers. It does not show significant sedimentation or precipitation in storage or after temperature cycling. Freezing and thawing have no effect on performance and the concentrate proportions satisfactorily in ordinary equipment at temperatures above 1.7°C. Synthetic foam concentrates should only be stored in stainless steel (Type 304L or 316), reinforced fibreglass polyester with a vinyl ester resin internal layer coating or plastic containers.

PACKING



OTHER FIRE FIGHTING EQUIPMENT



Manufactured by

UNITED FIRE & SAFETY SERVICES

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