

KV-LITE AR-AFFF - C6

ALCOHOL RESISTANT AQUEOUS FILM FORMING FOAM



Description

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

KV-LITE AR-AFFF - C6 is formulated with C6 based Fluorinated surfactants, Hydrocarbon surfactants, polysaccharides and solvents. It produces thin yet strong film on Hydrocarbon fuel surface, sealing the surface and preventing fuel vapour release. Adding special polymers ensures it is also highly effective against polar solvents. The foam spreads rapidly on fuel surface due to positive spreading provided by fluorinated surfactants and 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 solutions 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.

Application

KV-LITE AR-AFFF - 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. It can be used with both aspirating and non-aspirating discharge devices.

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

KV-LITE AR-AFFF - C6 is intended for use as 1x3% / 3X3% / 3X6% for hydrocarbon and polar solvent fires with fresh, sea/salt or hard water.

Proportioning and Discharge Devices

KV-LITE AR-AFFF - C6 can be used with all types of foam proportioning and 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 nozzle,

monitors, foam makers, foam chambers, foam pourers, rim seal foam pourers & sprinklers.

Compatibility

KV-LITE AR-AFFF - 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

When stored in sealed original containers, the product has a long shelf life of more than 10 years. The shelf life of foams is also dependent on the storage temperatures and conditions. Recommended storage temperature -2°C to 49°C. The product can withstand intermittent short time exposure up to 55°C. Ensure that the containers are not directly exposed to sunlight and heat. It is unaffected by freeze/thaw cycles.

Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electrochemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates. We recommend following our guidelines for storage and handling.

Environmental Information

Being based on C6 fluoro surfactants, KV-LITE AR-AFFF - C6 is environmentally safe, bio-degradable, low toxic to the aquatic organisms.

The handling of spills of concentrate or foam solution should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted in this respect.

Refer MSDS for additional information.

Packaging

The product is available in 20 litre jerry cans, 200 litre drums and 1000 litre tote packing.

Approvals and Listings



Typical Properties @25°C (77°F)

Parameters	AR-AFFF 1x3%	AR-AFFF 3x3%	AR-AFFF 3x6%
Appearance	Pale yellow viscous liquid	Pale yellow viscous liquid	Pale yellow viscous liquid
Specific Gravity	1.05± 0.02	1.02 ± 0.02	1.01 ± 0.02
pH Value	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5
Viscosity #4, 30 rpm	1600 +/- 200 cPs	1200 +/- 500 cPs	1000 +/- 500 cPs
Freezing Point	-2°C	-2°C	-2°C
Expansion *	>7	>7	>7
25% Drainage *	>7 min	>5 min 30 sec	>5 min 30 sec

*Values depend upon the equipment used and system parameters.

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DISCLAIMER *The above data is given in good faith and for general guidelines only. *The right is reserved to vary or modify any specification without prior notice.

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