

KV-LITE AFFF - C6 AQUEOUS FILM FORMING FOAM



Description

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

It is formulated with C6 fluorinated surfactants, hydrocarbon surfactants, solvents and blended with preservatives and stabilizers. 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 fluorinated surfactants and the foam blanket excludes oxygen from the fuel surface and provides cooling effect leading to fast flame knockdown and extinguishment.

KV-LITE AFFF - C6 is intended for use at 3/6% solution in fresh, sea/salt or hard water.

Application

KV-LITE AFFF - 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 stations, port terminals, airports, offshore and onshore installations etc. KV-LITE AFFF - C6 is especially suited whenever rapid-fire knock-down is essential. It can be used with both aspirating and non-aspirating discharge devices.

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

Proportioning and Discharge Devices

KV-LITE 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 nozzles, monitors, foam makers, foam chambers, foam pourers, rim seal foam pourers, sprinklers etc.

Typical Properties @25°C (77°F)

Parameters	AFFF 3%	AFFF 6%
Appearance	Amber colour liquid	Amber colour liquid
Specific Gravity	1.02 ± 0.03	1.02 ± 0.03
pH Value	6.5 - 8.5	6.5 - 8.5
Viscosity	< 10 cSt	< 10 cSt
Freezing Point	-2°C	-2°C
Expansion *	>7	>7
25% Drainage *	>2 min 30 sec	>2 min 30 sec

*Values depend upon the equipment used and system parameters.

Compatibility

KV-LITE 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 15 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 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

