

KV-LITE AR-AFFF



ALCOHOL TYPE FOAM CONCENTRATE (ATC)

KV-LITE UL AR-AFFF is a foam concentrate containing polysaccharide, which forms a pseudo plastic film on the surface of the polar solvents.

KV-LITE UL AR-AFFF forms a cohesive thin polymeric film at the interface between foam and the water soluble Polar solvents. This thin polysaccharide film protects the foam without destruction of aqueous film by polar solvents. The polymeric film has self-sealing characteristics whereby the film, if disturbed gets regenerated by itself.

KV-LITE UL AR-AFFF forms an aqueous film like AFFF on surface of hydrocarbon solvents. 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).

It exhibits quick fire control and is ideal for prompt intervention.

APPROVALS

- UL listed by Underwriters Laboratory as per standard UL-162
- Bureau of Indian Standards, Govt. of India specs IS: 4989 Part 4
- Directorate General of Mines Safety (DGMS), Govt. of India.
- Director General of Quality Assurance, Ministry of Defence, Govt. of India
- Manufacturing & Quality System to ISO 9001:2008 & ISO 14001:2004
- Our In House R &D facility is approved by Govt. of India, (DSIR).

CONFIRMITY

- UK Defence Standard Specification 42-40/Issue 1
- European standard EN 1568-2 & 3:2000
- International Standard Organisation – ISO: 7203 Part 1
- By any Third Party Inspecting Agency like Lloyds, DNV, BV etc.

APPLICATION:

- KV-LITE UL AR-AFFF is available in type 3 x 6% concentrate or 3 x 3% concentrate.
- Available with 2 application densities : 0.18 gpm/sq.ft. and 0.24 gpm/sq.ft
- It can be used with fresh water as well as seawater.
- It is also available as Freeze Protected type.
- It is suitable for application with standard low expansion foam making equipments.
- An ideal choice as a rapid effective extinguishing agent for fighting fires particularly of high risk areas like aviation, petrochemical complexes, refineries and tank terminals.
- **KV-LITE AR-AFFF is also available in freeze-protected range.**

COMPATIBILITY:

KV-LITE UL AR-AFFF is compatible with all types of dry powders and equivalent foams

SHELF-LIFE

KV-LITE UL AR-AFFF has a minimum shelf life of 10 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 temp. 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

KV-LITE UL AR-AFFF is environmentally safe. It is bio- degradable and low toxic to the aquatic organisms.

The following tests can be conducted from NABL/ FDA Approved Laboratory, on request.

- Toxicity Certificate
- Skin Irritation Test
- Microbiological Analysis
- Biodegradability (BOD/COD)
- Aquatic Toxicity

PHYSICAL & CHEMICAL PARAMETERS:

PROPERTY	3 X 3 %	3 X 6 %
APPEARANCE	Amber coloured viscous liquid	Amber coloured viscous 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	1.7 °C	1.7 °C
Viscosity @ 20 °C	Non Newtonian fluid*	Non Newtonian fluid*
Sediment	Maximum 0.25%	Maximum 0.25%
**Expansion Ratio	≥ 7 : 1	≥ 7 : 1
**Drainage (25 %)	≥ 7 min	≥ 7 min

* AR-AFFF is a Non Newtonian fluid that is both pseudoplastic (shear thinning) and thixotropic

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

PACKING:

UL recognised HDPE container of 20 L/30 L/200 L. IBC 1000 Ltr. or pack size of your choice.

DISPOSAL:

KV-LITE UL AR-AFFF can be successfully treated in biological waste water treatment systems. Local regulations should be complied for discharge in drainage/sewage systems.

EMERGENCY SERVICE : **HELP LINE** **+ 91 9225124508**

- The above data is given in good faith and for general guidelines only.
- We can match the product to your specifications and/or any applicable standards.
- The right is reserved to vary or modify any specification without prior notice.



K. V. FIRE CHEMICALS (I) PVT. LTD.

KAMALA NIVAS, PLOT- 32, LANE - D, SECTOR - 8, VASHI,
NAVI MUMBAI- 400703, INDIA

TEL : +91 22 2782 0827

E-MAIL : info@kvfire.com

FAX : +91 22 2782 4712

WEB SITE : www.kvfire.com