# K V- LITE HEF 1-3%

## HIGH EXPANSION FOAM CONCENTRATE

KV-LITE HEF Concentrate 1-3 % is available with medium or high expansion ratios. It is formulated with speciality hydrocarbon surfactants, stabilizers, preservatives and solvents. The formulation gives very satisfactory performance even at low temperatures. It is an efficient fire-extinguishing agent where fast coverage is essential. KV-LITE HEF is an ideal for engine rooms, aircraft hangers, for blanketing purpose.

Due to its more air percentage and less water content in the foam bubble, the finished foam has very low electrical conductivity.

Concentrate fights fire in the following ways:

- Fast spreading and coverage
- High foam stability provides blanketing effect over a longer time thereby cools the fuel surface, suppresses combustible vapour release and reduces re-kindling risk.
- Low surface tension gives superior wetting & penetrating properties to the foam concentrate. This reduces fire intensity & helps the extinguishant to penetrate the char red layer and control deep-seated fires.
- Foam layer acts as on insulating barrier, thus reduces heat radiation.

## APPROVALS & CONFIRMITY:

- Directorate General of Mines Safety (DGMS), Govt. of India.
- Our In House R &D facility is approved by Govt. of India, (DSIR).
- UK Home Office Specification JCDD/28.
- European standard EN1568-Part 3/2000
- International Maritime Organisation specs IMO MSC/Circ. 670 & 798
- International Standard Organisation – ISO: 7203 Part 2
- By any Third Party Inspecting Agency like Lloyds, DNV, BV etc
- Manufacturing & Quality System to ISO 9001:2008 & ISO 14001:2004

## APPLICATION:

KV-LITE HEF can be used with fresh water or the seawater.
It can be used with Medium and High Expansion Foam Equipments.
It can be used with aspirating discharge equipments and compressed air foam systems.
It is generally used at 1-3 % concentration.
When applied with compressed air foam system (CAFS), produces a very thick, low draining blanket.

**KV-LITE HEF is also available in freeze-protected range.**

## COMPATIBILITY:

KV-LITE HEF is compatible with dry chemical powders and with equivalent foams.

## SHELF-LIFE:

KV-LITE HEF has a minimum shelf life of 15 years, considering 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 HEF is environmentally safe. It is bio– degradable and non 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 | KV-LITE HEF |
|---|---|
| APPEARANCE | Clear liquid |
| pH @ 20 °C | 6.5 – 8.5 |
| Sp. Gravity @ 20 °C | 1.00 – 1.03 |
| Freezing Point | 0 °C |
| Viscosity @ 20 °C | Less than 10 cSt |
| Sediment | Maximum 0.25% |
| *Expansion Ratio | ≥ 200 : 1 |
| *Drainage (25 %) | ≥ 2 min |

*** Expansion & Drainage values depend on the equipments & the application conditions.**

## PACKING:

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

## DISPOSAL:

KV-LITE HEF can be successful treated in biological wastewater treatment systems.
Local regulations should be complied for discharge into common 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.


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