

# KV-LITE ABC



## POWDER FOR A, B & C CLASS FIRES - MONO AMMONIUM PHOSPHATE

Dry chemical powders are important fire fighting agents. The main advantage is practically immediate success of extinguishing a fire. Furthermore one can use dry powders for extinguishing large scale fires, spillage fires and three dimensional fires.

Mono Ammonium Phosphate is one of the important base in use since very long time. It is very popular as it is user-friendly extinguishing medium for Class A, B, & C fires.

Flame propagation is due to the chain reaction of the free radicals. KV-LITE ABC interferes with this chain propagation by reacting and absorbing the free radicals.

Water vapour, which is released due to decomposition in the flame zone, brings about cooling. Besides this a glossy layer of  $H_2P_2O_6$  is formed on the burning surface, which cuts off air and extinguishes the fire. Foam is then generally applied to secure the area.

Mono Ammonium phosphate base material is mixed with other ingredients to improve flow characteristics and expelling properties.

Powder is siliconised to impart excellent resistance to climatic changes.

### APPROVALS :

- Bureau of Indian Standards, Govt. of India specs IS 14609 : 1999
- Directorate General of Mines Safety (DGMS), Govt. of India
- Director General of Quality Assurance, Ministry of Defence, India
- Our In House R &D facility is approved by Govt. of India, (DSIR)
- By any Third Party Inspecting Agency like Lloyds, DNV, BV etc
- Manufacturing & Quality System to ISO 9001:2008 & ISO 14001:2004

### ALSO CONFIRMS TO:

- European standard EN 615 & EN 3
- Underwriters Laboratories UL-299 & UL -711
- International Standard Organisation - ISO: 7202

### APPLICATION:

KV-LITE ABC powder is suitable for use in all types of portable fire extinguishers, mobile extinguishers and fixed installations. Dry propelling agents such as  $N_2$  or  $CO_2$  can be used.

### KV-LITE ABC is suitable for A Class, B Class and C Class fire risk:

- Class A fires involving wood, paper, tyres, coal, film, textile etc.
- Class B fires involving petrol, diesel, kerosene, oil, alcohols etc
- Class C fires involving gases as Methane, Propane, Acetylene etc.

### COMPATIBILITY:

KV-LITE ABC is compatible with foam and products of same base material, hence can be used in twin application system.

### STORAGE & SHELF LIFE :

Rigid quality control ensures KV-LITE ABC withstand extreme climatic conditions. Powder remains free flowing with no loss of properties throughout the shelf life. The minimum shelf life is 5 years, considering tropical conditions & if properly stored in original packing. It can be stored upto 49 °C with intermittent exposure upto 60 °C.

### ECOLOGY:

KV-LITE ABC is environmentally friendly as all the raw materials & finished products are non-toxic. For long period of exposure, mask should be used.

Powder should be washed from the skin and eyes immediately after contact.

It does not affect metals in dry state, but must be removed from all surfaces after use.

Refer Material Safety Data Sheet for guidelines.

The environmental tests can be conducted from NABL/FDA Approved Lab, on request.

### TECHNICAL PARAMETERS:

PROPERTY	VALUES	
APPEARANCE	Yellow coloured free flowing powder	
APPARENT DENSITY	0.75 - 1.10 gm./cc	
WATER REPELLENCY	< 1.5 %	
MOISTURE CONTENT	< 0.25 %	
FLOWABILTY	> 50 gm./sec.	
PARTICLE SIZE DISTRIBUTION	Range	(% Retained)
	40 Mesh/0.425mm	0
	100 Mesh/0.150mm	2 - 15
	200 Mesh/0.075mm	18 - 28
	325 Mesh/0.45mm	18 - 32
	Bottom pan	25 - 62

### PACKAGING:

KV-LITE ABC is packed in hermetically sealed Rigidex bags of 5 Kgs/10Kgs/50Kgs packing. Special packing in HM HDPE drums also available for long term storage.

Available in 1000 Kgs bulk sacks, stretch wrapped on pallets for sea transport.

### RELIABILITY:

Consistent quality for excellent fire performance and product reliability.

Our In House R &D facility is approved by Govt. of India, (DSIR).

**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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