

TECHNICAL DATA SHEET



AQUEOUS FILM FORMING FOAM (AFFF – 3% & 6%)

Brief description: PalEx AFFF – 3% & 6% is a specially formulated Aqueous Film Forming Foam concentrate which has superior vapor suppressing capability through formation of film and expanded foam blanket on Class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. It forms foam blanket providing high level of post fire security and high burn back resistance.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Aqueous Film Forming Foam 3% & 6%
Reference Standard	IS:4989:2018



2. TYPICAL PROPERTIES :-

Sr. No.	Parameters	Range of Values
01.	Appearance	Amber Liquid
02.	pH	6.5 – 8.5
03.	Specific Gravity	1.0 – 1.03
04.	Pour Point	≤ 0°C
05.	Spreading Co-efficient	≥ 3

3. FEATURES :-

- This foam is intended for use at a proportioning rate of 3% & 6% (3 & 6 parts concentrate to 97 & 94 parts water) using fresh as well as sea water.
- Suitable for class “A” & class “B” fires like gasoline, kerosene, diesel, etc. It has excellent wetting characteristics when used in combating Class “A” fuel fires.
- Quick fire knock down and excellent burn back resistance property.

4. APPLICATION :-

- Crash Fire Rescue
- Storage Tanks (non-polar solvent fuels only)
- Truck/Rail Loading or Unloading Facilities.
- Processing/Storage Facilities.
- Docks/Marine Tankers n Flammable Liquid Containment Areas.
- Mobile Equipment.

5. FOAMING PROPERTIES :-

- PalEx AFFF Concentrate may be effectively applied using most conventional foam discharge equipment at a 3% & 6% dilution with fresh, salt, or hard water. For optimum performance, water hardness should not exceed 500ppm expressed as calcium and magnesium.
- Aspirating type discharge devices typically generate expansion ratios between 6-12 to 1 when mixed with water at the correct ratio.
- Non-aspirating type device will typically generate expansion ratios of between 2-4 to 1. Expansion ratios are dictated by the type of discharge devices, flow rate and discharge pressure.

6. MARKING & APPROVAL :-

Approvals
Marking

BIS (Bureau of Indian Standards)
Palex / Year of Mfg / Batch no.

7. COMPATIBILITY :-

PalEx AFFF – 3% & 6% is compatible with Dry Chemical Powder for firefighting.

8. ENVIRONMENTAL IMPACT :-

- PalEx AFFF – 3% & 6% is biodegradable, low in toxicity. It and can be treated in sewage treatment plants in consultation with relevant local authority.

9. STORAGE & HANDLING :-

- The storage place shall be free from dampness and shall be well ventilated and the containers shall not be directly exposed to the sunrays. The HDPE container (20/30 ltr capacity) shall be preferably stacked in single layer and shall not exceed more than 2 layers.

Recommended storage Temperature : -3°C to 49°C

Storage tanks for bulk storage : Foam concentrates are suitable for transferring into bulk storage tank for long term storage but these should be normally be kept full, with space (5-10% of tank volume) should be maintained for thermal expansion coefficient of material of construction and foam concentrate. Inlet pipe work should be located at the base of storage tank to avoid excessive foaming during filling. Outlet pipe work should be located above the base of the tank to avoid clogging in the event of sediment that might have formed.

10. WARRANTY :-

12 Months from the date of supply.

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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DELHI | GURUGRAM | CHENNAI