



Polypetrofilm



A superior quality Alcohol Resistant
Film-Forming FluoroProtein
Fire Fighting Foam Concentrate

FOR HYDROCARBON AND POLAR LIQUID FIRES
Low and medium expansion

POLYPETROFILM P.P.F. is a protein- based material providing a tough cohesive foam blanket with high resistance to heat and giving the same post-fire security as a top quality FluoroProtein (FP).

APPLICATION

POLYPETROFILM foam provides the following advantages:

- **Highly versatile** to be used on all difficult fires :
 - Polar liquids fires (ketones, aldehydes, ethers...)
 - Hydrocarbon fires of all types
- **Film-forming on hydrocarbons** for fast flame knockdown and extinguishment.
- **Stable and long-lasting foam blanket** for excellent burnback resistance and post-fire security.
- **Detergent-free** for high resistance to fuel pick-up.
- **Foam blanket re-seals** when ruptured by personnel or equipment
- **Reduced stocks**, low cost storage, long shelf-life and low using levels.

POLYPETROFILM is a superior quality Alcohol Resistant film-forming FluoroProtein (AR-FFFP) fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon and polar solvents liquids fires. Fluorochemical surface active agents combined with the protein base produce a vapour-sealing aqueous film on hydrocarbons which provides the same fast control and extinguishment as top quality synthetic AFFF.

On polar solvents an insoluble polymer membrane is formed and protects the foam blanket from the solvents.

POLYPETROFILM provides a vapour suppressing foam blanket on spills of hazardous liquids.

CONCENTRATION USE

| | 6/6 | 3/3 | 3/6 |
|---------------|-----|-----|-----|
| Hydrocarbons | 6 % | 3 % | 3 % |
| Polar liquids | 6 % | 3 % | 6 % |

APPLICATION

A forceful application on hydrocarbon fires is possible whereas a gentle one is preferable on polar liquid fires.

TYPICAL USES

POLYPETROFILM is the ideal fire fighting foam to use in high risk situations:

- Used where hydrocarbons (such as crude, oil, gasoline, diesel fuel, aviation kerosene) and/or polar solvents (such as alcohols, ketones, esters and ethers) are stored, processed or transported.
- It is extensively used by industrial and Municipal fire departments.
- Used for typical applications including:
 - hydrocarbon storage tanks,
 - process areas,
 - warehouses,
 - road/rail loading racks,
 - power stations,
 - marine terminal and offshore platforms,
 - sprinkler installations.

SPECIFICATIONS

POLYPETROFILM PREMIUM + 3/3 conforms to the EN 1568 3-4 Standards.

| | |
|-------------|------------------------------------------|
| 1568-3 | Class I at 3% Burnback Level A |
| 1568-4 | |
| Aceton | Class I at 3% Burnback Level B |
| Isopropanol | Class I at 3% Burnback Level A |

The classification depends on the version.

GENERAL CHARACTERISTICS

(According to NF EN 1568 standards)

Foam concentrate

| | Version Premium +3/3 | Version 3/3 | Version 3/6 | Version 6/6 |
|------------------------------------|----------------------|---------------|---------------|---------------|
| Specific gravity | 1.1 kg/l | 1.1 kg/l | 1.1 kg/l | 1.1 kg/l |
| pH at 20° C | 7.5 | 7.5 | 7.5 | 7.5 |
| Viscosity at 20° C | pseudoplastic | pseudoplastic | pseudoplastic | pseudoplastic |
| Pour point | ≤ -14° C | ≤ -15° C | ≤ -14° C | ≤ -14° C |
| Sediment rate | ≤ 0.1 % | ≤ 0.1 % | ≤ 0.1 % | ≤ 0.1 % |
| Surface tension | 16 mN/m | 17 mN/m | 17 mN/m | 17 mN/m |
| Interfacial tension on cyclohexane | 3 mN/m | 3 mN/m | 3 mN/m | 3 mN/m |

Foam

| | Version 3/3 | Version 3/3 | Version 3/6 | Version 6/6 |
|----------------------|-------------|-------------|-------------|-------------|
| Concentration | 3 % | 3 % | 3 % | 6 % |
| Low expansion | 8 | 7.5 | 7.5 | 8,5 |
| Drainage 25 % | 6 min 00 | 3 min 00 | 3 min 00 | 8 min 00 |
| Medium expansion | 60 | 50 | 50 | 70 |
| Drainage 50 % | 4 min 00 | 3 min 00 | 4 min 00 | 6 min 00 |