AFFF AR

S.F.P.M.

A superior quality alcohol-resistant
AFFF Fire Fighting Foam Concentrate

FOR HYDROCARBON AND POLAR LIQUID FIRES
Low, medium and high expansion

S.F.P.M. foam concentrate (Synthetic Film-forming Polyvalent Multiexpansion) is a blend of hydrocarbon synthetic forming agents and fluorochemical surface active agents.

APPLICATION

S.F.P.M. foam provides the following advantages:

- Highly versatile to be used an all difficult fires:
  - Polar liquid 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.
- Foam blanket re-seals when ruptured by personnel or equipment.
- Reduced stocks, low cost storage, long shelf-life and low use levels.

S.F.P.M. is a superior quality Alcohol Resistant film-forming (AR-AFFF) fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon and polar solvent liquid fires. Fluorochemical surface active agents combined with a foaming agent base produces a vapour-sealing aqueous film on hydrocarbons which provides fast control and extinguishment.
On polar solvents an insoluble polymer membrane is formed which protects the foam blanket from the solvents.

S.F.P.M. 3/3 provides a vapour suppressing foam blanket on spills of hazardous liquids.

CONCENTRATION USE

	6/6	3/6	3/3
Hydrocarbons	6 %	3 %	3 %
Polar liquids	6 %	6 %	3 %

APPLICATION

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

TYPICAL USES

S.F.P.M. 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 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

S.F.P.M. conforms to EN 1568 1-2-3-4 Standards with the following ratings.

1568-3 Class I Burnback Level A
1568-4 Class I Burnback Level A
1568-1*
1568-2

PARTICULAR QUALITIES

- Film-forming
- Sea water compatibitliy
- Frost resistance

GENERAL CHARACTERISTICS

(According to NF EN 1568 standards)

Foam concentrate

	Version 6/6	Version 3/6	Version 3/3
Specific gravity	1.040 kg/l	1.040 kg/l	1.040 kg/l
pH at 20° C	7.5	7.5	7.5
Viscosity at 20° C	pseudoplastic	pseudoplastic	pseudoplastic
Pour point	≤ -11,3° C	≤ -15° C	≤ -12° C
Sediment rate	≤ 0.1 %	≤ 0.1 %	≤ 0.1 %
Surface tension	18 mN/m	17 mN/m	18 mN/m
Interfacial tension on cyclohexane	6 mN/m	4 mN/m	6 mN/m

Foam

	Version 6/6	Version 3/6	Version 3/3
Low expansion	8.5	8.0	8.5
Drainage 25 %	14 min 00	10 min 00	13 min 30
Medium expansion	110	100	85
Drainage 50 %	10 min 00	8 min 00	6 min 00
High expansion	550	500	500
Drainage 50 %	8 min 00	6 min 00	6 min 00

* internal control tests