

S&P SAFETY PRODUCTS PVT. LTD.



Alcohol Resistant Film Forming Fluoro Protein Foam AR FFFP 3/3% AR FFFP 3/6%



|||| Alcohol Resistant Film Forming Fluoro Protein Foam (AR FFFP)

- Quickest surface sealing and flame knockdown by blocking oxygen supply to the fuel.
- Environment friendly.
- Based on the latest C6 chemistry.

TYPES



- SP AR FFFP 3/3 (AR FFFP 3/3%) Hydrocarbon and Polar solvent fire: 3 volumes of concentrate with 97 volumes of water (3% Induction Rate)
- SP AR FFFP 3/6 (AR FFFP 3/6%) Hydrocarbon fire: 3 volumes of concentrate with 97 volumes of water (3% Induction Rate)
 Polar solvent fire: 6 volumes of concentrate with 94 volumes of water (6% Induction Rate) for extinguishing

PRODUCT DESCRIPTION



SP AR FFFP has the most advanced foam formulation in low and medium expansion foam for effective extinguishment of Class A and B fires (both hydrocarbon & polar solvent). A protein base material provides a tough cohesive foam blanket with high resistance to heat that provides the same post-fire security as any top quality FluoroProtein (FP).

SP AR FFFP is specially formulated to make sure that the product is reliable for its ultimate fire management performance. **SP AR FFFP** consists of effective surfactants so as to have superior knockdown properties on all water miscible as well as immiscible fuel fires at a very low application rate.

FIRE-FIGHTING PROCESS ///

Fluoro-chemical surface active agents combined with protein base produce a vapour sealing aqueous film on hydrocarbons that provides rapid extinguishment. On polar solvents (Alcohols, Esters & Ketones / Aldehydes etc.), a cohesive thin insoluble polymer membrane is formed at the interface between foam and water-soluble polar solvents which protects the foam blanket from the solvent. The designed self-sealing polymeric film re-seals any disturbed or broken surface of itself on the burning liquid.

COMPATIBILITY



SP AR FFFP is proved to be compatible with a wide range of conventional foams including protein-based products and hence can be applied as a twin-agent with other types of foams and dry chemical powders. **SP AR FFFP** is suitable for use in combination with soft, hard, fresh, brackish or sea water.

APPLICATIONS



- Air aspirating discharge devices such as low expansion branch pipes, monitors, top pourer sets.
- Hydrocarbon storage tank fires.
- Non-aspirating discharge devices such as spray/fog branch pipes and nozzles, monitors, and spray/fog sprinklers. Non-aspirated application is not recommended as the primary method of attack for major fires.

STORAGE



SP AR FFFP has been formulated by world class preservatives like Acid- Alkaline buffer and other foam stabilizers to give a very long storage life. A shelf-life of at least ten years can be expected if it is stored properly in original containers at recommended temperatures and atmospheric condition.

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	Property	SP AR-FFFP-3/3%	SP AR-FFFP-3/6%
	Appearance	Brown Colour	Brown Colour
	pH@20°C	6.0-8.0	6.0-8.0
	Sp gravity@20°C	1.10±10%	1.10±10%
	Miscibility Distilled water Synthetic Sea Water	Miscible Miscible	Miscible Miscible
	Surface Tension (dyn/cm)	Less than 18	Less than 18
	Spreading Coefficient	More than(+) 0	More than(+) 0
	* Lowest use Temperature	0°C	0°C
	Pour Point	Freely move at 0°C or below	
	Viscosity @20°C	To be declared by manufacturer	
	Freezing and Thawing (Sedimentation fiction) No Sedimentation / Stratification after freezing and Thawing at (-) 5 °C to 60°C	No Sedimentation / Stratification after freezing and Thawing at (-)0°C to 60°C	
	** Expansion Ratio	6.00 to 10.00	6.00 to 10.00
	** Drainage (25%)	Min 180sec	Min 180sec

^{*} Also available in freeze protected type

^{**} Value depends on equipment used and system parameters







Drum 200 Ltr.



IBC 1000 Ltr.

APPROVALS

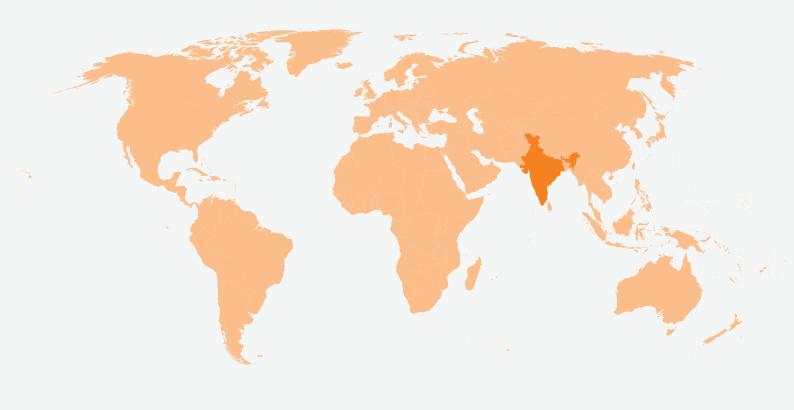


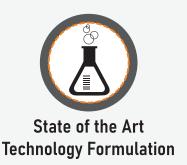
















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