

# AQUAFILM™ AF-1R FP

## AFFF FOAM CONCENTRATE FREEZE PROTECTED (1%)

**1. DESCRIPTION.-** Freeze Protected (until  $-20^{\circ}\text{C}$ ) AFFF compound for extinction of class A and class B (hydrocarbon) fires. It contains fluorinated and hydrocarbon surfactants in order to allow the formation of an aqueous film on the surface of most hydrocarbon fuels, reducing vapour leaks and preventing the contact with the oxygen.

**2. USE.-** It may be used with low expansion foam equipment (nozzles, monitors, foam chambers, etc), non-aspirating devices (water spray nozzles and standard sprinklers) and medium expansion foam branches.

**3. DOSAGE.-** The dilution rate is 1% in fresh or sea water. It may be proportioned with standard equipment (in-line inductors, bladder tanks, balanced pressure systems, etc) and special purpose ones for AFFF agents.

**4. SPECIFICATIONS.-** The typical characteristics of the concentrate and foam solutions are:

CONCENTRATE	
Specific gravity @ $20^{\circ}\text{C}$	1.045
pH @ $20^{\circ}\text{C}$	8.0
Viscosity, cone and plate, $375/75\text{ s}^{-1}\text{ mPa.s}$ @ $20^{\circ}\text{C}$	10.0
Freezing point, $^{\circ}\text{C}$	$< -20$
Lowest temp. for using, $^{\circ}\text{C}$	$-17.8$ ( UL )

FOAM SOLUTION	
Dilution rate	1%
Surface tension @ $20^{\circ}\text{C}$ , mN/m (Demineralised water)	15.7
Interfacial tension with cyclohexane at $20^{\circ}\text{C}$ , mN/m	3.0
Low Expansion Foam (UNI-86)	
Foam Expansion Index	8
25% Drainage Time, min:s	3:00

**5. PACKAGING.-** The product is supplied in 20 or 25 L PE prismatic containers, 200 L PE cylindrical drums and 1.000 L IBC containers.

**6. PERFORMANCE.-** The foam achieves a very quick knock-down of fires, even with low application rates, and shows an excellent burn-back resistance. The product has passed all the official tests to get the **UL-162 listing** as AFFF with portable systems and it is **pending** for the final certificate. The product will be listed for hydrocarbons with type III application @ 0.10 gal/min-sq.ft

**7. STORAGE.-** The concentrate should be stored at temperatures between ( $-17.8^{\circ}\text{C}$ —UL requirement) and  $+50^{\circ}\text{C}$ , preferably in the original containers or in stainless steel or epoxy lined tanks. Avoid permanent contact with carbon steel, iron, copper alloys, aluminium, etc. Do not mix with other foam concentrates without a previous verification of compatibility

**8. CAUTIONS.-** Foams should not be used in contact with electrical equipment, nor with chemical products that can react with water. It is recommended to avoid the contact of the foam concentrate with the skin. In case of eye splashes wash with plenty of water. In case of ingestion do not induce vomit, drink water and take medical advice.

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