

# AQUAFILM<sup>TM</sup> EX-1

## AFFF ADITIVE FOR FIRE EXTINGUISHERS (1%)

**1. DESCRIPTION.-** AFFF compound for extinction of hydrocarbon fires, especially designed for use in portable fire extinguishers. It achieves very fast extinctions on light fuels, when it is applied as foam or spray, thanks to its improved aqueous film characteristics. It exhibits very low corrosion rates on carbon steel and light alloys.

**2. USE.-** Specially designed for use in portable fire extinguishers. Also it can be used with low expansion foam equipment (nozzles, monitors, foam chambers, etc) and non-aspirating devices (water spray nozzles and standard sprinklers).

**3. DOSAGE.-** The dilution rate is 1% in water. It can be used in premix (in portable extinguishers) or proportioned with standard equipments (in-line inductors, bladder tanks, balanced pressure systems, etc) and special purpose ones for AFFF agents (e.g. Hydrofoam nozzles).

#### 4. CHARACTERISTICS OF CONCENTRATE AND FOAM SOLUTION.-

CONCENTRATE	
Density @ 20°C, gr/cm <sup>3</sup>	1.05
pH @ 20°C	8-8.5
Viscosity, mPa.s @ 20°C	12
Freezing point, °C	<-10

FOAM SOLUTIONS	
Dosage rate	1%
Surface tens. at 20°C, mN/m (Demineralised water)	16.0±0.5
Interfacial tens. with cyclohexane at 20°C, mN/m	2±0.5
Low Expansion Foam (EN-1568-3)	
Foam Expansion Index	8.5
25% Drainage Time, min:s	3:30

**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.

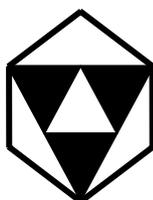


**6. PERFORMANCE.-** Its foam achieves a very quick knock-down of fires in spray applications and exhibits an excellent burn-back resistance. A 9 lit. hand extinguisher loaded with 1% solution of AQUAFILM EX-1 extinguishes easily the 233B fire test (7 m<sup>2</sup>) and the 21A class A fire. The performance of the product depends on the characteristics of used equipment (pressure, nozzle, etc), thus its efficiency should be tested with the same fire extinguisher that will be used.

**7. STORAGE.-** The concentrate should be stored at temperatures between -10° and +50°C, preferably in its original containers or in stainless steel or epoxy lined tanks. Do not mix with other foam concentrates without a previous verification of compatibility.

**8. CAUTIONS.-** Foams should not be used in contact with electrical equipments, neither 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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