

# POLYFOAM 3/6R

## AFFF—AR PSEUDOPLASTIC FOAM CONCENTRATE 3X6

**1. DESCRIPTION.-** AFFF compound for extinction of hydrocarbon and polar solvent fires. Concentrate with pseudoplastic behaviour. 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. On polar solvent fuels use gentle application.

**3. DOSAGE.-** The dilution rate is 3% in fresh or sea water for extinguishing hydrocarbon fires and 6% for polar solvent (alcohols, ketones, ethers, esters, amines, etc) fires. It may be proportioned with standard equipment (in-line inductors, bladder tanks, balanced pressure systems, etc) and special purpose ones for AFFF agents (e.g. Hydrofoam nozzles).

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

CONCENTRATE		FOAM SOLUTION		
Specific gravity @ 20°C	1.050	Dilution rate	3%	6%
pH @ 20°C	7.5	Surface tens. at 20°C, mN/m (Demineralised water)	16.0	16.0
Viscosity, cone and plate, 375/75 s <sup>-1</sup> mPa.s @ 20°C	60/165	Interfacial tens. with cyclohexane at 20°C, mN/m	3.0	2.0
@ -7°C	100/250	Low Expansion Foam (EN 1568-3)		
Freezing point, °C	<-15	Foam Expansion Index	8.0	9
Lowest temp. for use, °C (UL requeriment)	-7	25% Drainage Time, min:s	8:00	20:00

**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 approval certifications according to EN 1568-3:2008 (class IA) and EN 1568-4:2008 (class IA) and it is listed according to UL-162. The product fulfils the LASTFIRE protocol for extinction of hydrocarbons in tanks, with the qualification of GOOD in the 3 tests: semi-aspirated, aspirated and system nozzles.

EN-1568-3/4:2008 approval


UL Listed

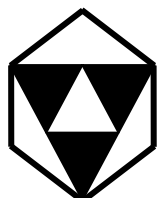
LASTFIRE approval

Standard	EN-1568-3:2008		EN-1568-4 :2008				UL-162			
	Heptane		Acetone		IPA		Heptane		IPA	
Fuel	Forceful		Gentle	Gentle	Gentle	Gentle	Type III		Type II	
Application	3	3	6	6	6	6	3	3	6	6
Dilution rate, %	fresh	salt	fresh	salt	fresh	salt	fresh	salt	fresh	salt
Water	1:28	1:37	1:28	1:27	1:12	1:20	2:09	2:55	1:56	1:42
Extinction	17:20	19:30	19:00	18:40	19:53	19:07	pass	pass	pass	pass
Burnback 25%	IA		IA				Listed		Listing pending	
Classification										

**7. STORAGE.-** The concentrate should be stored at temperatures between -7° and +50°C, preferably in the original containers or in stainless steel or epoxy lined tanks. Avoid permanent contact with carbon steel, iron, cooper 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 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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