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	
Specific gravity @ 20°C	1.050
pH @ 20°C	7.5
Viscosity, cone and plate, 375/75 s^{-1} mPa.s @ 20ºC	60/165
@ -7ºC	100/250
Freezing point, °C	<-15
Lowest temp. for use, ºC (UL requeriment)	-7

FOAM SOLUTION		
Dilution rate	**3%**	**6%**
Surface tens. at 20°C, mN/m (Demineralised water)	16.0	16.0
Interfacial tens. with cyclohexane at 20°C, mN/m	3.0	2.0
Low Expansion Foam (EN 1568-3)		
Foam Expansion Index	8.0	9
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**			
Fuel	Heptane		Acetone		IPA		Heptane		IPA	
Application	Forceful	Forceful	Gentle	Gentle	Gentle	Gentle	Type III		Type II	
Dilution rate, %	3	3	6	6	6	6	3	3	6	6
Water	fresh	salt	fresh	salt	fresh	salt	fresh	salt	fresh	salt
Extinction	1:28	1:37	1:28	1:27	1:12	1:20	2:09	2:55	1:56	1:42
Burnback 25%	17:20	19:30	19:00	18:40	19:53	19:07	pass	pass	pass	pass
Classification	IA		IA				Listed		Listing pending	

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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