



**AUXQUIMIA**  
Fire fighting products

**THE  
FOAM  
SOLUTION**



# POLYFOAM 1/3 UL

## PREMIUM FOAM CONCENTRATE AFFF-AR 1x3%

POLYFOAM 1/3 UL is an AFFF-AR compound for extinction of hydrocarbon and polar solvent fires.

This concentrate has a pseudoplastic behaviour. It contains fluorinated and hydrocarbon surfactants to allow a good formation of an aqueous film on the surface of most hydrocarbon fuels and polar solvents, suppressing vapour leaks and preventing its contact with the oxygen and providing an excellent sealing on hot surfaces. Its formulation allows a great oil repellence, fluidity and burnback resistance.

*POLYFOAM 1/3 UL is a perfect tool to fight fires on storage tanks, bund, process areas, loading racks, power stations, marine vessels, Onshore and offshore terminals amongst others.*

POLYFOAM 1/3 UL dilution rate is 1% in fresh or sea water for extinguishing hydrocarbon fires and 3% for polar solvent (alcohols, ketones, ethers, esters, amines, etc.) fires or when medium expansion is required.

It performs extraordinarily on *fresh or sea water* and it may be proportioned with standard equipment (in-line inductors, bladder tanks, pumps, balanced pressure systems, etc.) and special purpose ones for AFFF agents (e.g. Hydrofoam nozzles).

On hydrocarbon and polar solvent fires it can be applied also

with non-aspirating devices (water spray nozzles and standard sprinklers). **This foam is perfect for tough applications where conventional foams fail**; it can be used fighting fires or covering spillages of chemicals to avoid the emission of toxic, harmful, flammable, etc., vapours, even acids. The foam has a very good resistance to all kind of chemicals.

POLYFOAM 1/3 UL is highly biodegradable and it is manufactured according to "C6 fluorocompounds" fulfilling the 2010/2015 EPA PFOA Stewardship Program.

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# POLYFOAM 1/3 UL

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## SPECIFICATIONS

CONCENTRATE	
Specific gravity @ 20°C	1.06
pH @ 20°C	7 - 7.5
Viscosity, cone and plate, 375/75 s-1 mPa.s @ 20°C	80/220
	0°C 125/320
Freezing point, °C	<-10*
Lowest temp. for using, °C	-7

FOAM SOLUTION		
Dilution rate	1%	3%
Surface tens. @ 20°C, mN/m (Demineralised water)	16.0	16.0
Interfacial tens. with cyclohexane at 20°C, mN/m	4.0	2.5
Low Expansion Foam (EN 1568-3)		
Foam Expansion Index	7.5	8.5
25% Drainage Time, min:s	4:00	12:00

## PERFORMANCE

The foam achieves a very quick knock-down of fires, even with low application rates, and shows an excellent burn-back resistance. It is certified according to EN-1568-3:2008 (class 1A) and EN-1568-4:2008 (class 1B) 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 (Fresh and Sea Water) at 1% and 3%.

Standard	EN-1568-3:2008		EN-1568-4:2008				UL-162			
Application	Heptane		Acetone		IPA		Heptane		IPA	
Dilution rate, %	Forceful	Forceful	Gentle	Gentle	Gentle	Gentle	Type III		Type II	
Fuel	1	1	3	3	3	3	1	1	3	3
Water	Fresh	Salt	Fresh	Salt	Fresh	Salt	Fresh	Salt	Fresh	Salt
Extinction	2:06	1:59	1:24	1:29	1:35	1:11	1:45	1:35	1:16	1:20
Burnback 25%	15:45	17:50	13:30	13:00	14:20	12:00	Pass	Pass	Pass	Pass
Classification	1A		1B				Listed		Listed	



## PACKING

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

## STORAGE

The concentrate should be stored at temperatures between -7° (UL requirement) and +50°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

## CAUTIONS

Foams should neither 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.