



AUXQUIMIA
Fire fighting products

**THE
FOAM
SOLUTION**



POLYFOAM 3/3

PREMIUM FOAM CONCENTRATE AFFF-AR 3x3%

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

A-33018003

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SPECIFICATIONS

CONCENTRATE	
Specific gravity @ 20°C	1.04
pH @ 20°C	8 ± 1
Viscosity, cone and plate, 375/75 s-1 mPa.s @ 20°C	80/240
	0°C 110/290
Freezing point, °C	<-10*
Lowest temperature for use, °C	-10

*Also available with lower freezing points. Please contact us for further information.

FOAM SOLUTION	
Dilution rate	3%
Surface tension at 20°C, mN/m (Demine- ralised water)	16.0
Interfacial tension with cyclohexane at 20°C, mN/m	3.0
Low Expansion Foam (EN-1568-3)	
Foam Expansion Index	8.0
25% Drainage Time, min:s	8:00

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 1A) and EN-1568-4:2008 (class 1B)**

and ICAO level B. 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 with fresh and sea water

Standard	EN-1568-3:2008		EN-1568-4:2008			
Application	Forceful		Gentle			
Dilution rate, %	3		3			
Fuel	Heptane	Heptane	Acetone	Acetone	IPA	IPA
Water	Fresh	Salt	Fresh	Salt	Fresh	Salt
Extinction	1:28	1:41	1:25	1:23	1:10	1:07
Burnback 25%	16:08	15:46	11:42	14:07	14:21	16:00
Classification	1A	1A	1B	1B	1B	1A

EN 1568:
2008 Parts 3&4



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 -10° 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.