

# AUXQUIMIA® UNIPOL-FF™ 3/3S

## FLUORINE FREE FOAM CONCENTRATE (3X3)



### DESCRIPTION

Foam concentrate formulated with a special combination of hydrocarbon surfactants and pseudo-plastic polymers which gives excellent foaming, extinguish and burnback properties to its foam solutions. It does not contain any organohalogenated compounds. It can be used to put out class B (liquids) and class A (solids) fires.

### USE

**UNIPOL-FF 3/3S** has been designed to be used with high, medium and low expansion foam equipment and generate foams with high fluidity and slow drainage. It is mainly used on hydrocarbon fires and could be even applied with forceful application; capacity up until now only reserved for AFFF agents. It can also be used on polar solvents, in this case with gentle application. The lack of fluorinated additives, which improves the anti-alcohol effect of the product, can reduce the performance with different solvents, and thus, it may be necessary to increase the typical application rates. Unlike the AFFF agents, it does not form an aqueous film on hydrocarbons because it does not contain fluorinated surfactants. The excellent extinguish times are possible thanks to its good foaming capacity, high water retention and great oleophobicity. Due to the lack of this aqueous film, it is recommended to cover the fuel with a layer of foam thick enough to prevent that the fuel surface can be exposed and reignited. Its good wetting ability and great water retention make it very suitable for extinguishing Class A fires (solid) with both spray and low expansion nozzles.



### DOSAGE

The proportioning rate is 3% for hydrocarbons and 3% for polar solvents in fresh or sea water.

### SPECIFICATIONS

FOAM CONCENTRATE	
Specific gravity @ 20°C	1.010
pH @ 20°C	1.010
Viscosity, cone and plate, 375/75 s-1 mPa.s @ 20°C	93/285
Viscosity, #4, 30 rpm, cPs @ 20°C	3000
Freezing point, °C	< -2°C
Lowest temperature for use, °C	0°C

FOAM SOLUTION	
Dilution rate	3%
Surface tens. at 20°C, mN/m (Demineralised water)	22.2
Interfacial tens. with cyclohexane at 20°C, mN/m	4.9
<b>Low Expansion Foam (EN 1568-3)</b>	
Foam Expansion Index	>7.5
25% Drainage Time, min:s	>20:00
<b>Medium Expansion Foam (EN 1568-1)</b>	
Foam Expansion Index	≥70
25% Drainage Time, min:s	>30:00

**PERFORMANCE**

UNIPOL-FF 3/3S has approval certification according to the EN 1568-1:2008, EN 1568-2:2008, EN-1568-3:2008 (hydrocarbons) and EN-1568-4:2008 (polar solvents).

**PACKAGING**

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 0° 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 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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