

UNIPOL-FFTM 3/6

FLUORINE FREE FOAM CONCENTRATE (3x6)

1. 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.

2. USE.– UNIPOL-FF 3/6 has been designed to be used with low expansion nozzles 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.

3. DOSAGE.– The dosage rate is 3% for hydrocarbons and 6% for polar solvents. In case of class A fires the product can be used at 3%. It may be proportioned with standard equipment (in-line inductors, bladder tanks, balanced pressure systems, etc).

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

FOAM CONCENTRATE		FOAM SOLUTIONS		
Specific gravity @ 20°C	1.045	Dilution rate	3%	6%
pH @ 20°C	7.5	Surface tens. at 20°C, mN/m (Demineralised water)	25.0	27.0
Viscosity, cone and plate, 375/75 s ⁻¹ mPa.s @ 20°C @ +1.7 °C	95/320 115/375	Interfacial tens. with cyclohexane at 20°C, mN/m	1.5	1.5
Freezing point, °C	< -5	Low Expansion Foam (EN-1568-3)		
Lowest temp. for use, °C	+1.7	Foam Expansion Index	8.0	9.0
		25% Drainage Time, min:s	>15:00	>20:00

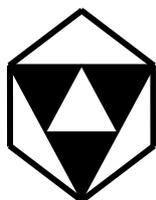
5. PACKAGING.- The product is supplied in 20 or 25 L PE prismatic containers, 200 L PE cylindrical drums and 1.000 L IBC containers.

6. PERFORMANCE.- UNIPOL-FF 3/6 has approval certification according to the **EN-1568-3:2008** and (low expansion-hydrocarbons) **EN-1568-4:2008** (polar solvents). The classifications are showed in the table below. The product is certified under the **LASTFIRE protocol** with the classification of “**GOOD**” for the three nozzles (Semiaspirating, Aspirating and System). The product has passed all the official tests to get the **UL-162 listing** with fixed systems and it is **pending** for the final certificate. The product will be listed with type II application for hydrocarbons @ 0.10 gal/min·sq.ft and type II for polar solvents @ 0.15 gal/min·sq.ft.

7. STORAGE.- The concentrate should be stored at temperatures between +1.7°C (UL requirement) and +40°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.

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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