

# UNIPOL-FF 1<sup>TM</sup>

## FLUORINE FREE FOAM CONCENTRATE (1%)

**1. DESCRIPTION.**– Low viscosity foam concentrate formulated with a special combination of hydrocarbon surfactants 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 hydrocarbons and class A (solids) fires.

**2. USE.**– UNIPOL-FF 1 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. 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 1% for hydrocarbons and class A fires. 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	
Specific gravity @ 20°C	1,040
pH @ 20°C	7,5
Viscosity, cone and plate, 375/75 s <sup>-1</sup> mPa.s @ 20 °C	4.5
@1.7 °C	9.0
Freezing point, °C	< 0
Lowest temp. for use, °C	+1.7

FOAM SOLUTIONS	
Dilution rate	1%
Surface tens. at 20°C, mN/m (Demineralised water)	25,0
Interfacial tens. with cyclohexane at 20°C, mN/m	1,5
Low Expansion Foam (UNI-86)	
Foam Expansion Index	8,0
25% Drainage Time, min:s	8:00

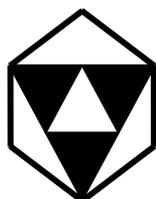
**5. PACKAGING.**- The product is supplied in 20 or 25 L PE prismatic containers, 200 L PE cylindrical drums and 1.000 L IBC containers.

**6. PERFORMANCE.**- The UNIPOL-FF 1 has passed all the official tests to get the **UL-162 listing** on fresh water 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. It also fulfils the **EN-1568-3** as class IB.

**7. 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.

**8. CAUTIONS.**- Foams should not be used in contact with electrical equipment, 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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