

SOLBERG® UNIPOL-FF™ 1

**FLUORINE FREE FOAM TO FIGHT
FLAMMABLE LIQUID FIRES.**



DESCRIPTION

UNIPOL-FF™ 1 is a foam concentrate formulated with a special combination of hydrocarbon surfactants which allows an 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.

UNIPOL-FF™ 1 has been designed to fight effectively hydrocarbon fires and to be used with low expansion nozzles and generate foams with high fluidity and slow drainage.

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.

UNIPOL-FF™ 1 dilution rate is 1% in fresh or sea water for extinguishing hydrocarbon fires. It may be proportioned with standard equipment (in-line inductors, bladder tanks, pumps, balanced pressure systems, etc.).

UNIPOL-FF™ 1 is highly biodegradable.



SPECIFICATIONS

| CONCENTRATE | |
|---|----------------------------|
| Specific gravity @ 20°C | 1.040 |
| pH @ 20°C | 7.0±0.5 |
| Viscosity, cone and plate, 375/75 s-1 mPa.s | @ 20°C 4.5 @ +1.7°C 9.0 |
| Freezing point, °C | < 0°C |
| Lowest temperature for use, °C | + 1.7°C |

| FOAM SOLUTION | |
|---|------|
| 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 |

PERFORMANCE

UNIPOL-FF 1 fulfills the EN-1568-3:2008 (low expansion-hydrocarbons) as class IB and it is also listed according to UL 162 with hydrocarbons fuels.

| STANDARD | EN-1568-3:2008 | |
|------------------|----------------|--------|
| Fuel | Heptane | |
| Application | Forceful | Gentle |
| Dilution rate, % | 1 | 1 |
| Water | fresh | fresh |
| Extinction | 2:35 | 2:20 |
| Burnback 25% | - | 16:00 |
| Classification | IB | IB |



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 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.



Solutions That Save.

FOR MORE INFORMATION

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