

AUXQUIMIA® UNIPOL-FF™ 0.5

0.5% FLUORINE-FREE FOAM CONCENTRATE



DESCRIPTION

UNIPOL-FF™ 0.5 is a 0.5% low viscosity fluorine-free foam concentrate formulated with a special combination of hydrocarbon surfactants. This highly concentrated formulation provides excellent foam quality with rapid control, suppression and burnback on Class B hydrocarbon flammable liquid fires, and on Class A deep-seated fires. This 0.5% Newtonian foam concentrate ensures consistent flow characteristics and reliable proportioning across a wide range of fire equipment and temperatures, making transitioning simpler. It contains no siloxanes, and no intentionally added per- and poly-fluoroalkyl substances (PFAS) compounds, including fluorinated surfactants. Making it an environmentally responsible alternative to traditional AFFF foam agents.

UNIPOL-FF™ 0.5 has been specifically designed for effective suppression of hydrocarbon liquid fuel fires. It is optimised for use with standard firefighting discharge devices, including fixed and mobile equipment. It generates a foam blanket characterised by high fluidity, good spreadability and slow drainage, enabling effective fuel surface coverage, vapour suppression and minimising reignition risk.

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 due to its good foaming capacity, high water retention and great oleophobicity. As no aqueous film is formed, it is recommended to apply sufficient foam to establish a continuous, cohesive foam blanket, preventing fuel surface exposure, suppressing vapour release, minimising the risk of reignition, and ensuring long-term burnback resistance. 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.

APPLICATIONS

UNIPOL-FF™ 0.5 is designed for use with fresh water for suppressing and extinguishing hydrocarbon Class B fires and deep-seated Class A fires, providing operational flexibility across a wide range of industries.

It can be used with standard firefighting foam equipment and discharge devices; is compatible with standard foam proportioning such as in-line inductors, bladder tanks, balanced pressure systems, foam pumps, and fixed system proportioners. UNIPOL-FF 0.5 can be used through various aspirated and non-aspirating devices, discharge devices such as handline nozzles and monitors, foam chambers and foam bund pourers, as well as and CAFS (Compressed Air Foam Systems).



UNIPOL-FF™ 0.5 is non-persistent and highly biodegradable, reducing environmental impact in comparison to conventional fluorinated foam concentrates.

CERTIFICATIONS

UNIPOL-FF™ 0.5 has been the subject to the following fire testing programs. Results include:

- Tested and certified to European Standard EN-1568:2008 part 3 on hydrocarbon fuel with fresh water at 0.5%
- EN-1568:2008 - Part 3: IB (heptane)

EN 1568
2008: Part 3

USAGE RATE

The dilution rate is 0.5% in fresh water for hydrocarbons and class A fires.

TYPICAL PROPERTIES		TYPICAL FOAM PROPERTIES	
Specific gravity @ 20°C	1.020-1.070	Dilution rate	0.5%
pH @ 20°C	7.0-8.0	Surface tens. at 20°C, mN/m (demineralised water)	27.0
Viscosity, cone and plate, 750 s-1 mPa.s @ 20°C	12	Low Expansion Foam (EN-1568-3)	
Freezing point, °C	< -5	Foam Expansion Index	>7
Lowest temperature for use, °C	-5	25% Drainage Time, min:s	>1:30

* Brookfield cone/plate

INSPECTION

UNIPOL-FF™ 0.5 or a premix solution should be tested annually per National Fire Protection Association (NFPA 11) and EN-13565-2 standards. A sample of the foam is sent to the manufacturer or qualified third party lab to confirm physical properties and foam quality meet the specifications of the foam as originally supplied as per the requirements of NFPA 11 and EN-13565-2.

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/MATERIAL COMPATIBILITY

UNIPOL-FF™ 0.5 should be stored between -4°C and +50°C, preferably in the original containers. The foam concentrate has been successfully tested and verified under multiple temperature conditioning stability cycles at -30 °C to +60 °C, with no adverse effects. UNIPOL-FF 0.5 is not affected by freeze-thaw conditions and will return to the original, effective state upon thawing without any degradation in performance. AUXQUIMIA UNIPOL-FF 0.5 is compatible with multiple materials of construction found in firefighting equipment. Do not mix with other foam concentrates without a previous verification of compatibility. For questions about material of construction compatibility, consult Perimeter Solutions technical services. The foam concentrate shelf life is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature fluctuation, evaporation, dilution, and contamination by foreign materials. When stored in original containers or in manufacturer-recommended equipment within the specified temperature range, the shelf life of the product is rated to exceed 10 years.

ENVIRONMENTAL

UNIPOL-FF™ 0.5 is siloxane-free and contains no intentionally added PFAS, fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with EU Directive. It presents no concern for persistence, bioaccumulation or toxic breakdown (no PBT profile).

⚠ CAUTIONS

Foams should not be used in contact with electrical equipment or with chemical products that can react with water. It is recommended to avoid contact of the foam concentrate with skin. In case of eye splashes, wash with plenty of water. In case of ingestion do not induce vomiting, drink water and seek medical advice.

Contains no intentionally added PFAS.

FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:
www.Perimeter-Solutions.com

UNITED STATES

1520 Brookfield Avenue
Green Bay, WI 54313
Tel: +1 (920) 593-9445
salesfoamusa@perimeter-solutions.com

EMEA

Polígono Industrial de Baiña, Parcela 23
33682 Baiña-Mieres (Asturias) – Spain
Tel: +34 985 24 29 45
salesfoamemea@perimeter-solutions.com

ASIA PACIFIC

3 Charles Street
St Marys NSW 2760 – Australia
Tel: +61 2 9673 5300
salesfoamapac@perimeter-solutions.com

perimeter-solutions.com

NOTICE PERIMETER SOLUTIONS MAKES NO REPRESENTATIONS OR WARRANTIES AS TO THE COMPLETENESS OR ACCURACY OF THE INFORMATION INCLUDED HEREIN. THE INFORMATION CONTAINED HEREIN IS NOT INTENDED TO PROVIDE REGULATORY, LEGAL OR EXPERT ADVICE RELATING TO THE PRODUCTS, ITS APPLICATION OR USES. NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION TO USE ANY PRODUCT, PROCESS, EQUIPMENT OR FORMULATION IN CONFLICT WITH ANY INDUSTRIAL PROPERTY OR INTELLECTUAL PROPERTY RIGHTS, AND PERIMETER SOLUTIONS MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, THAT THE USE THEREOF WILL NOT INFRINGE ON ANY INDUSTRIAL PROPERTY OR INTELLECTUAL PROPERTY RIGHTS. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.