



## FOAMOUSSE® 3% F-15 #5301



### PROTEINSCHAUMLÖSCHMITTEL

FOAMOUSSE® 3% F-15 is a protein-based foam extinguishing concentrate for the generation of low expansion foam.

FOAMOUSSE® 3% F-15 is based exclusively on natural, renewable proteins as foaming agents, which, when combined with foam stabilizers and antifreeze additives, result in a high-performance and particularly environmentally compatible firefighting foam agent. Therefore, FOAMOUSSE® 3% F-15 is particularly environmentally friendly and easily and completely biodegradable.

#### Performance

Low expansion foam made from FOAMOUSSE® 3% F-15 forms a stable foam blanket that is highly resistant to heat and air movement.

FOAMOUSSE® 3% F-15 can be expanded to form fine and stable, yet flowable and very adhesive Low Expansion Foam, which, due to the exclusive use of proteins as foaming agents, shows significantly less fuel pick-up than synthetic firefighting foam agents. Due to its high foam density, large throw distances can be achieved. The firefighting foam solution draining out from the foam promotes flow of the foam blanket and cools very efficiently.

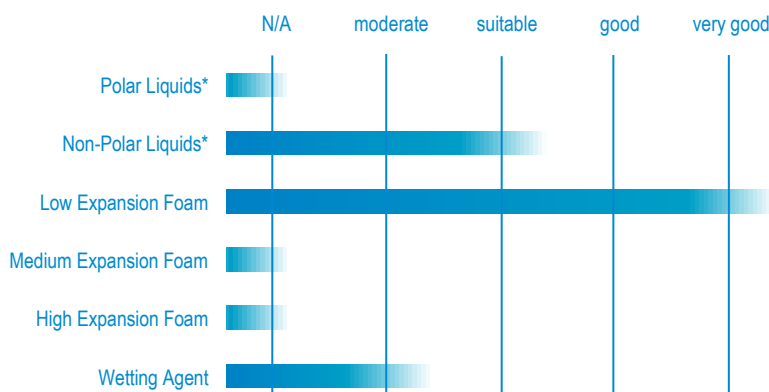
Extensive application and test experience is available for this product, confirming its performance and high level of built-in redundancy (please contact us for details).

#### Technical Specification

Appearance	dark brown/dark brown/black
Fire Class-es	A + B
Lowest Use Temperature	-15 [°C]
Max. Storage Temperature	max. +50 [°C]
Specific Gravity (20°C)	1,170 ± 0,02 [g/ml]
pH value (20°C)	6,5 - 8,0
Viscosity (20°C)	< 30 [mm²/sec]
Sedimentation	< 0,25 [%]

#### Foam Properties acc. to EN1568 at 20°C

Induction Rate	3%
Expansion Rate	5 - 9
25% Drainage Time	3 - 7 [min]
50% Drainage Time	8 - 12 [min]
Expansion Types	Low Expansion Foam



\*as mentioned in the respective test standard or in the text

#### Performance Tests

**DIN EN 1568** EN 1568:2008 - Approval-No.: KB-311/14  
Part 3 (Heptane): IIB/IIB

## Application

**FOAMOUSSE® 3% F-15** is designed for use as Low Expansion Foam with all mobile and fixed firefighting systems and equipment, especially for extinguishing fires of fire class B.

The main application areas are the petroleum and petrochemical industries, airports, shipping, onshore and offshore.

**FOAMOUSSE® 3% F-15** is suitable for all qualities of water (fresh water, industrial water free of foam-destroying additives, sea water and brackish water). The proportioning rate to the fire water is 3%.

For extinguishing operations in the presence of or on electrical equipment, relevant standards for protection against damage by electricity (e.g. in Germany DIN/VDE-0132) must be followed.

Because proteins form sticky residues when they dry, all equipment (especially suction proportioners and foam tubes) should be thoroughly cleaned after contact with protein foam agents.

## Compatibility

When mixing different firefighting foam agents, it must be considered that the resulting mixture is a new chemical product which is not tested as firefighting foam agent and also must be re-evaluated and labeled according to hazardous materials regulations.

For immediate use (e.g. in case of emergency) **FOAMOUSSE® 3% F-15** can be mixed in any ratio with similar firefighting foam agents. Mixtures of **FOAMOUSSE® 3% F-15** with other firefighting foam concentrates are not suitable for storage - not even short term.

The foam produced from **FOAMOUSSE® 3% F-15** is fully compatible with all other ready expanded firefighting foams.

## Storage & Shelf Life

Since based on Protein, **FOAMOUSSE® 3% F-15** can - unlike all synthetic firefighting foam concentrates - also be stored in steel containers, thus opening up access to particularly cost-effective storage. Protein firefighting foam agents form a protective layer on black steel surfaces which shields the metal from further corrosion.

When selecting construction materials for fixed firefighting systems dissimilar metal conductivity materials should be avoided to prevent or minimize electrochemical corrosion <sup>\*1</sup>.

<sup>1</sup> local elements (electrochemical batteries) are created, for example, when base metals are connected conductively via an electrolyte. Mostly this leads to the destruction of the more base metal hence the part made from it.

<sup>2</sup> Please refer to the additional technical information on material compatibility and storage of firefighting foam agents for information on suitable containers and container materials.

<sup>3</sup> We define fluorine-free as products that are manufactured without the intentional addition of fluorinated compounds for the purpose of improving performance in such a way that, according to currently commercially available analysis of PFAS in firefighting foam concentrates, they do not contain any quantity of fluorinated substances in excess of the ubiquitous regional background contamination (e.g. in the drinking water used for production).

Note that firefighting foam concentrates and application solutions made from them are electrically conductive liquids.

**FOAMOUSSE® 3% F-15** can be stored for up to 10 years or more in the originally sealed container or in suitable storage containers<sup>\* 2</sup> at temperatures not below the specified frost resistance and not above 50°C.

Before filling storage tanks, these tanks and all supply lines, pumps, valves or other parts carrying media must be thoroughly cleaned, free of grease and free of residues from a previous filling. Before filling up stocks of our **FOAMOUSSE® 3% F-15** we recommend to have a quality test of the stock to be filled up carried out in our laboratory.

## Environment

**FOAMOUSSE® 3% F-15** is easily and completely biodegradable and free of organic fluorine compounds<sup>\*3</sup>, preservatives and silicone compounds.

The product itself, as well as solutions made from it, act as plant nutrients and promote growth, or new vegetation formation. Any release of the product and its solutions to natural waters must be avoided because of the risk of overfertilization/eutrophication.

Unused product (concentrate) must not be released into the environment. Disposal must be carried out in consultation with local authorities and specialised waste treatment companies.

## Transport

**FOAMOUSSE® 3% F-15** is available in the following packaging units: PE-canister (20 ltr, 25 ltr and 60 ltr), PE-canister according to DIN 14452 (20 ltr); PE-drum (200 ltr), PE-IBC (600 ltr und 1.000 ltr) or bulk.

Please contact us for special packing sizes.



For further Documentation please scan the Qr code or see <http://sthamer.de/qr/5301>



Safety Advice: Please bear in mind that foam solutions are electroconductive liquids. The use in proximity to electrical/electrical equipment can require specific safety measures.



Safety Advice: Please see our Technical Information regarding "Mixing of Foam Concentrates" for further information

### Disclaimer:

Any information in this product data sheet bases upon our best knowledge and expertise at the time of this issue. We reserve the right to change the content of this document or adopt to newer information. Please ask for the most recent revision of this data sheet.

<b>Main Office Hamburg</b> Liebigstr. 5 22113 Hamburg GERMANY Tel.: +49 (0)40 73 61 68-0 Fax: +49 (0)40 73 61 68-0	<b>Sales Office Hannover</b> Hartenbrakenstr. 54 30659 Hannover GERMANY Tel.: +49 (0)511 768 358-45 Fax: +49 (0)511 768 358-46	<b>Sales Office Jena</b> Carl-Pulfrich-Str. 1 07745 Jena GERMANY Tel.: +49 (0)3641 63538-57 Fax: +49 (0)3641 63538-59	<b>Office Frankenthal</b> Siemensstr. 4 67227 Frankenthal GERMANY Tel.: +49 (0)6233 3796-605 Fax: +49 (0)6233 3796-622	<a href="mailto:info@sthamer.com">info@sthamer.com</a> <a href="http://www.sthamer.com">www.sthamer.com</a>	
---	---	--	---	--	--