# **Product Data Sheet**





## FOAMOUSSE®-FP/AR 3/3 F-15 #5321



### ALCOHOL RESISTANT FLUORO PROTEIN FOAM CONCENTRATE

*FOAMOUSSE*<sup>®</sup>-*FP/AR 3/3 F-15* is a highly effective, universal firefighting foam agent for use in critical risk areas where polar<sup>\*1</sup> flammable liquids (e.g. alcohols, ketones, organic acids, etc.), non-polar<sup>\*2</sup> hydrocarbons (diesel, kerosene, gasoline, crude oil, etc.) respectively other chemicals are produced, processed, decanted, transported or stored. Natural, renewable proteins serving as foam-forming components are combined with foam stabilizers, antifreeze additives and fluorine compounds to create an exceptionally powerful foam concentrate for firefighting.

The fluorine components contained improve flowability and fuel-repellency of the foam made from  $FOAMOUSSE^{\circledast}$ -FP/AR 3/3 F-15 allowing for its use on non-polar<sup>\*1</sup> hydrocarbons or even fuels with small additions (<10% by volume) of foam-destroying substances such as ethanol or MTBE.

FOAMOUSSE<sup>®</sup>-FP/AR 3/3 F-15 is particularly suitable and tested for use in marine environments.

### Performance

Low expansion foam made from FOAMOUSSE<sup>®</sup>-FP/AR 3/3 F-15 forms a stable foam blanket that is highly resistant to heat and air movement.

Low expansion foam made from *FOAMOUSSE*<sup>®</sup>-*FP/AR 3/3 F-15* consists of fine and even bubbles providing a very homogeneous structure and a dense and moist foam blanket. The firefighting foam solution draining out from the foam promotes flow of the foam blanket and cools very efficiently. During engagement these features provide firefighters with long distance throw and a readily spreading and fast flowing foam blanket with very good cooling and securing effect.

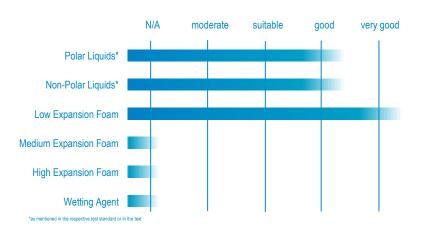
The fluorine components contained in the foam improve ist spreading capabilities and make it oil-repellent (oleophobic), i.e. it exhibits very low emulsifying properties and therefore hardly pics up fuel. This oleophobic property empowers Low Expansion Foam for direct application onto the burning fuel surface or by "sub-surface"technique.



Appearance	dark brown/dark brown/black	
Fire Class/-es	В	
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)	< 40 [mm²/sec]	
Sedimentation	< 0,25 [%]	

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

Induction Rate	3%	
Expansion Rate	5-8	
25% Drainage Time	2 - 6 [min]	
50% Drainage Time	6 - 10 [min]	
Expansion Types	Low Expansion Foam	



#### Performance Tests



IMO MSC.1/Circ. 1312 non-polar (Heptane) IMO MSC.1/Circ. 1312 polar (Alcohol)

flammable liquids that are miscible with water.
flammable liquids that are not miscible with wate

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### Application

FOAMOUSSE®-FP/AR 3/3 F-15 is specifically designed and tested for fighting fires of chemical/petrochemical product in a maritime environment.

FOAMOUSSE®-FP/AR 3/3 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.

### **Compatibility**

FOAMOUSSE®-FP/AR 3/3 F-15 shall under no circumstances be mixed with other firefighting foam concentrates or -solutions, neither as a concentrate nor as a premix. Even low volumes of other firefighting foam agents will have an adverse effect on the extinguishing performance of FOAMOUSSE®-FP/AR 3/3 F-15 and may cause dangerous reactions with the fuel.

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

### Storage & Shelf Life

Since based on Protein, FOAMOUSSE®-FP/AR 3/3 F-15 can unlike all synthetic firefighting foam concentrates - also be stored in steel containers, thus opening up access to particularly costeffective storage.

When selecting construction materials for fixed fireghting systems disimilar metal conductivity materials should be avoided to prevent or minimize electrochemical corrosion \*3. Note that firefighting foam concentrates and application solutions made from them are electrically conductive liquids.

FOAMOUSSE®-FP/AR 3/3 F-15 can be stored for up to 10 years or more in the originally sealed container or in suitable storage containers\* 4 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®-FP/AR 3/3 F-15 we recommend to have a quality test of the stock to be filled up carried out in our laboratory.

### Environment

After use, all parts which were in contact to FOAMOUSSE®-FP/AR 3/3 F-15 must be thoroughly rinsed with water and cleaned to prevent any product buildup. Dried-in adhesions may require longer time soaking for removal.

The product contains organic fluorine compounds which cannot be completely degraded in the environment. Unused product (concentrate) must not be released into the environment. Dispo-

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

sal must be carried out in consultation with local authorities and specialised waste treatment companies.

Please also note further information in our safety data sheet!

### Transport

FOAMOUSSE<sup>®</sup>-FP/AR 3/3 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.



#### or further Documentation please scan the Qr code or see http://sthamer.de/gr/5321



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

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

#### Disclaime

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.

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