

## **FOAMOUSSE®-FFFP 3% F-15 #5331**

PROTEIN-BASED FOAM CONCENTRATE



### **Description**

FOAMOUSSE®-FFFP 3% F-15 is a film forming foam concentrate based on a special formulation of natural protein along with fluorinated additives, stabilisers and anti-freezing compounds. FOAMOUSSE®-FFFP 3% F-15 virtually combines the extinguishing performance of AFFF with the sealability of fluoroprotein foam concentrates.

### **Properties**

FOAMOUSSE®-FFFP 3% F-15 low expansion foam allows long throwing distances and, thanks to the increased contents of fluorine-components provides outstanding flowability and burnback resistance.

The aqueous film formed out of the foam even extinguishes areas of hydrocarbon fires not yet reached by the foam. The foam does not emulsify with hydrocarbon fuels and is therefore ideal for sub-surface and semi sub-surface application. Where required FOAMOUSSE®-FFFP 3% F-15 can be used in non-aspirated form.

FOAMOUSSE®-FFFP 3% F-15 complies with applicable standards such as EN 1568-3 and ICAO Level B.

### **Application**

FOAMOUSSE®-FFFP 3% F-15 is applied with all low expansion foam equipment and installations, including sub-surface and semi sub-surface systems. Equally suitable is non-aspirating equipment such as water monitors or "Fog-Fighters". According to the grade used the induction rate is 3% to water.

FOAMOUSSE®-FFFP 3% F-15 is typically used in chemical and petrochemical industries, on airports and in offshore installations. The use of salt water or brackish water does not affect the excellent extinguishing properties, neither does treated industrial water.

### **Environment**

None of the raw materials used in our products are banned. Our foam concentrates comply with the latest environmental regulations, such as 'Commission Regulation (EU) No 757/2010',

amending '(EC) No 850/2004.' FOAMOUSSE®-FFFP 3% F-15 will also comply with the 'significant new use rule (SNUR)' for long-chain perfluoroalkyl carboxylate proposed by the Environmental Protection Agency, which will come into effect in due course.

### **Compatibility with other foam concentrates**

#### Mixing for immediate use:

FOAMOUSSE®-FFFP 3% F-15 can be mixed for immediate usage with other equivalent foaming agents, independent of the mixing ratio. When FOAMOUSSE®-FFFP 3% F-15 is to be added to existing stocks of foaming agents we recommend to have the quality of the available stock tested by our laboratory.

FOAMOUSSE®-FFFP 3% F-15 stocks must not be mixed with other products.

#### Mixing for long term storage:

FOAMOUSSE®-FFFP 3% F-15 stocks must not be mixed with other FFFP protein foam concentrates.

#### Mixing with synthetic concentrates:

FOAMOUSSE®-FFFP 3% F-15 must not be mixed with class A, AFFF, or alcohol resistant AFFF concentrates.

#### Mixing with other expanded foams:

FOAMOUSSE®-FFFP 3% F-15 foams are compatible with all other readily expanded fire extinguishing foams.

### **Compatibility with powder**

FOAMOUSSE®-FFFP 3% F-15 is suitable for the combined use with foam compatible dry chemical powders.

### **Packaging**

FOAMOUSSE®-FFFP 3% F-15 is available in jerrycans, plastic drums, steel drums, IBC's (totes) and in bulk.

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### Storage

FOAMOUSSE®-FFFP 3% F-15 can be stored for long periods of time in the sealed original containers and in corrosion-resistant plastic or stainless steel tanks. High temperatures up to +50°C do not affect the quality, neither does temporary freezing at temperatures below the specified frost resistance limit.

### Shelf Life

FOAMOUSSE®-FFFP 3% F-15 has a shelf life of >10 years, if stored according to our recommendations (see technical info leaflet TM015 'storage protein foam concentrates').

### Conformity/Listings

FOAMOUSSE®-FFFP 3% F-15 is approved as fire extinguishing agent for fires of class A and B according to the following standards:



EN 1568:2008 - Certificate No.: KB-306/14  
Part 3 (Heptane): IB/IB



ICAO Airport Services Manual  
Low expansion foam --- Level B

| Physical properties and technical data                 |  | FOAMOUSSE®-FFFP 3% F-15 |                     |
|--|--|-------------------------|---------------------|
| Recommended induction rate                             | 3%   | low expansion foam      | non-polar liquids   |
| Foam expansion*<br>(according to EN 1568)              | 5 - 9  | low expansion foam*     |                     |
| 25%/50% water drainage time*<br>(according to EN 1568) | 2 - 6 minutes  | 4 - 8 minutes           | low expansion foam* |
| Colour   | dark brown to black  |                         |                     |
| pH value   | at 20°C  | 6,5 - 8,0               |                     |
| Density  | at 20°C  | 1,170 ± 0,02 g/ml       |                     |
| Sediments  | < 0,25%  |                         |                     |
| Surface tension/Spreading coefficient                  | < 17,5 mN/m  | > 3 mN/m (Cyclohexane)  |                     |
| Frost resistance                                       | -15°C  |                         |                     |
| Viscosity  | at 20°C  | < 30                    | mm²/sec             |
|  | at 0°C   | < 60                    | mm²/sec             |
|  | at -15°C   | < 200                   | mm²/sec             |
| Environmental acceptability                            | FOAMOUSSE®-FFFP 3% F-15 is readily bio degradable. Fluorine components are not fully degradable. See material safety data sheet for further information.   |                         |                     |
| Special notes  | FOAMOUSSE®-FFFP 3% F-15 poses no health risk, provided it is used as intended as fire extinguishing foam. Firefighting exercise and testing may have to be agreed with local authorities. Consider when spraying persons with foam that they will not be able to breathe whilst covered with foam. See material safety data sheet for further information. |                         |                     |



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