

## **MOUSSOL®-FF 3/6 F-15 #7941**

ALCOHOL RESISTANT FOAM CONCENTRATE



### **Description**

MOUSSOL®-FF 3/6 F-15 is an alcohol-resistant fluorine free fire extinguishing foam concentrate. It is based on special surface active agents, polymer film formers, co-surfactants as well as foam stabilisers and antifreezing compounds which are partially made of re-growing raw materials.

### **Properties**

MOUSSOL®-FF 3/6 F-15 is a pseudoplastic product which is stable against both polar (watermiscible) and non-polar hydrocarbons as well

as mixtures of the two.

MOUSSOL®-FF 3/6 F-15 has very good foaming properties and can be used as medium and high expansion foam as well. On polar hydrocarbons, the polymer film formed effectively prevents destruction of the foam.

### **Application**

MOUSSOL®-FF 3/6 F-15 is used with all mobile equipment and fixed foam systems for generating low, medium, and high expansion foam, especially for fighting fires of foam-destroying products, e.g. alcohols, ketones, esters, etc. The induction rate is 3% for fires of non-polar and 6% for fires of polar, foam-destroying hydrocarbons. Spilled chemicals should be covered by foam to prevent emissions. The foam blanket suppresses the evaporation of the liquid and prevents a possible ignition. To achieve an optimal extinguishing success, fires of polar liquids should be extinguished by using gentle application methods, e.g. goose necks. A pump supported induction may be advisable. Besides tap water MOUSSOL®-FF 3/6 F-15 can also be used with sea and brackish water as well as with treated industrial water.

### **Environment**

None of the raw materials used in our products are banned. Our foam concentrates comply with the latest environmental regulati-

ons, such as 'Commission Regulation (EU) No 757/2010', amending '(EC) No 850/2004.' MOUSSOL®-FF 3/6 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:

MOUSSOL®-FF 3/6 F-15 can be mixed for immediate usage with other equivalent foaming agents, independent of the mixing ratio. When MOUSSOL®-FF 3/6 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.

MOUSSOL®-FF 3/6 F-15 stocks must not be mixed with other products.

#### Mixing for long term storage:

Mixing of MOUSSOL®-FF 3/6 F-15 with other fluorine-free, alcohol resistant foam concentrates and subsequent storage is not recommended.

#### Mixing with synthetic concentrates:

MOUSSOL®-FF 3/6 F-15 must not be mixed with protein, AFFF, AFFF/AR or synthetic foam concentrates! Even smallest amounts may render the relevant products unusable.

#### Mixing with other expanded foams:

MOUSSOL®-FF 3/6 F-15 foams are compatible with all other readily expanded fire extinguishing foams.

### **Compatibility with powder**

MOUSSOL®-FF 3/6 F-15 is suitable for the combined use with foam compatible dry chemical powders.

### **Packaging**

MOUSSOL®-FF 3/6 F-15 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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## Storage

MOUSSOL®-FF 3/6 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

MOUSSOL®-FF 3/6 F-15 has a shelf life of >10 years, if stored according to our recommendations (see technical info leaflet TM014 'Storage of Synthetic Fire Extinguishing Foam Concentrates').

## Approval

MOUSSOL®-FF 3/6 F-15 is approved as fire extinguishing agent for fires of class A and B according to the following standards:



Certificate No.: KB-163/16

| Physical properties and technical data  |          | MOUSSOL®-FF 3/6 F-15  |                        |                        |
|---|----------|---|------------------------|------------------------|
| Recommended induction rate  |          | 0,3%  | wetting agent          | solid materials        |
|   |          | 3%  | low expansion foam     | non-polar liquids      |
|   |          | 3%  | medium expansion foam  | non-polar liquids      |
|   |          | 3%  | high expansion foam    | non-polar liquids      |
|   |          | 6%  | low expansion foam     | polar liquids          |
| Foam expansion*<br>(according to EN 1568)   |          | 5 - 10  | low expansion foam*    |                        |
|   |          | 60 - 120  | medium expansion foam* |                        |
|   |          | 400 - 800   | high expansion foam*   |                        |
| 25%/50% water drainage time*<br>(according to EN 1568)  |          | 4 - 8 minutes   | 8 - 15 minutes         | low expansion foam*    |
|   |          | 2 - 5 minutes   | 5 - 10 minutes         | medium expansion foam* |
|   |          | 2 - 4 minutes   | 4 - 6 minutes          | high expansion foam*   |
| Colour  |          | yellow to brown   |                        |                        |
| pH value  | at 20°C  | 6,5 - 8,5   |                        |                        |
| Density   | at 20°C  | 1,040 ± 0,02 g/ml   |                        |                        |
| Sediments   |          | none  |                        |                        |
| Frost resistance  |          | -15°C   |                        |                        |
| Viscosity   | at 20°C  | < 800(400)  | mPa*s bei 75(375) 1/s  |                        |
|   | at 0°C   | < 1200 (650)  | mPa*s bei 75(375) 1/s  |                        |
|   | at -15°C | < 1500(750)   | mPa*s bei 75(375) 1/s  |                        |
| Environmental acceptability   |          | MOUSSOL®-FF 3/6 F-15 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.   |                        |                        |
| Special notes   |          | MOUSSOL®-FF 3/6 F-15 poses no health risk, provided it is used as intended as fire extinguishing foam. Fire fighting exercise and testing may have to be agreed with local authorities. Take into account 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. |                        |                        |
| * Foam expansion and drainage times may vary, depending on foam equipment and operating pressure. |          |   |                        |                        |



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