

# MOUSSOL-APS LV 1/3

Universal alcohol resistant AFFF fire extinguishing foam concentrate

## Description

**MOUSSOL-APS LV 1/3** is a newly developed, low-viscous alcohol-resistant AFFF fire extinguishing foam without addition of polysaccharides.

It is based on special surface active agents, aqueous film formers, co-tensides as well as foam stabilisers and antifreezing compounds which are partially made of re-growing raw materials and are very ecological.

The product ensures rapid and safe extinction by film formation preventing reignition and developing a stable foam which is gastight and resists flames and heat radiation.

Preventatively **MOUSSOL-APS LV 1/3** is used to cover spills of volatile liquids. The foam blanket suppresses evaporation preventing emissions of flammable and toxic gases. The fire risk and environmental impact thus are reduced considerably.

## Properties

**MOUSSOL-APS LV 1/3** is designed for low and medium expansion foam application on polar and non-polar flammable liquids. Fluorinated surfactants provide aqueous film formation on non-polar hydrocarbons whereas the fluoro-polymer film formed on polar solvents effectively prevents destruction of the foam.

Recommended induction rate	1% to 3% 1% for low expansion foam applied to non-polar hydrocarbons 3% for low and medium expansion foam applied to polar products, highly polar products and non-polar hydrocarbons.
Foam expansion (acc. to DIN 14272)	depending on foam equipment and water pressure low expansion foam      6 to      15 times medium expansion foam      up to 100 times
Foam stability (acc. to DIN 14272)	50 % water drainage time depending on foam equipment and water pressure low expansion foam      approx. 20 minutes medium expansion foam      approx. 10 minutes
Density	1.055 ± 0.02 kg/l
Frost resistance	-15 °C
pH value	6.5 to 8.5
Sediment content	none
Spreading coefficient	3 mN/m
Viscosity	0 °C ≤      17 ± 5 mm <sup>2</sup> /s -15 °C ≤      35 ± 5 mm <sup>2</sup> /s
Environmental acceptability	MOUSSOL-APS LV 1/3 is physiologically harmless and easily biodegradable.
<b>Special notes</b>	MOUSSOL-APS LV 1/3 is not detrimental to health, provided it is used for the

Physical properties and technical data

intended purpose. Fire extinguishing exercises and tests may have to be coordinated with the local authorities. When persons are sprayed with foam, please bear in mind that they will not be able to breathe while covered with foam. For further information users are asked to refer to the safety data sheet.

02.05

## Product information

### **MOUSSOL-APS LV 1/3**

Universal alcohol resistant AFFF fire extinguishing foam concentrate

### **Application**

Being a true universal foam concentrate **MOUSSOL-APS LV 1/3** is particularly effective for extinguishing polar solvents and other foam attacking chemicals. Induction rate value depending on requirements between 1% and 3%.

**MOUSSOL-APS LV 1/3** is used with all mobile equipment and fixed foam systems for generating low- and medium expansion foam including sprinkler installations. Non-aspirating branch pipes may be used for hydrocarbon fires where the aqueous film is active even without expanded foam. Sub-surface or semi sub-surface systems are also suitable for non-polar fuels.

**MOUSSOL-APS LV 1/3** low-expansion foam can be applied directly on non-polar fuels. Indirect application of low expansion foam is necessary where polar solvents are involved. The lighter medium expansion foam may generally be applied directly.

Thanks to the low viscosity of **MOUSSOL-APS LV 1/3** in-line eductors can be used without limitation at low temperatures up to -15 °C.

### **Compatibility**

#### **with other foaming agents**

**MOUSSOL-APS LV 1/3** concentrate must not be mixed with other foam concentrates.

### **Compatibility with**

#### **other fire extinguishing foams**

The foam generated from **MOUSSOL-APS LV 1/3** is compatible with all other readily expanded fire extinguishing foams.

### **Compatibility with powder**

**MOUSSOL-APS LV 1/3** is suitable for the combined use with foam compatible powders.

### **Storage**

**MOUSSOL-APS LV 1/3** 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 +45 °C do not affect the quality; neither does temporary freezing at temperatures below the specified frost resistance limit.

### **Approval**

**MOUSSOL-APS LV 1/3** is officially approved for class A + B fires including low and medium expansion foam applications for polar and non-polar solvent fires.

Approval No.:

- DIN EN 1568 Part 3 and 4

Nr.: PL-8/01.

The product complies with other applicable standards.



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