

# MOUSSOL-APS 1/3

Universal alcohol resistant AFFF fire extinguishing foam concentrate

## Description

**MOUSSOL-APS 1/3** is an alcohol-resistant AFFF fire extinguishing foam concentrate.

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

## Properties

**MOUSSOL-APS 1/3** combines the effectiveness of both polymer and aqueous film forming foam concentrates within itself. Fluorinated surfactants enhance the flowability of the foam on non-polar hydrocarbons. The polymer film formed on polar solvents effectively prevents destruction of the foam.

The products ensure 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 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.

**MOUSSOL-APS 1/3** complies with applicable standards.

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	depending on foam equipment and water pressure low expansion foam 6 to 15times medium expansion foam up to 100times
Foam stability	50 % water drainage time depending on foam equipment and water pressure low expansion foam ≥20 minutes medium expansion foam 5 - 10 minutes
Density	1.06 ± 0.02 kg/l
Frost resistance	-15 °C
pH value	6.5 to 8.5
Sediment content	none
Spreading coefficient	3 mN/m
Viscosity	Thixotrope liquid
Environmental acceptability	<b>MOUSSOL-APS 1/3</b> is physiologically harmless and easily biodegradable.
<b>Special notes</b>	<b>MOUSSOL-APS 1/3</b> is not detrimental to health, provided it is used for the 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.

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**Application**

Being a true universal foam concentrate **MOUSSOL-APS 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 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. Generation of high expansion foam is possible, however not recommended for application on polar solvents.

**MOUSSOL-APS 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. In-line eductors are suitable in most cases due to the thixotrope character of the products. At low temperatures pump supported induction may be advisable.

**Compatibility****with other foaming agents**

For immediate usage **MOUSSOL-APS 1/3** can be mixed with other equivalent foaming agents, independent of the mixing ratio. Existing stocks of **MOUSSOL-APS 1/3** must not be mixed with other products.

**Compatibility with****other fire extinguishing foams**

**MOUSSOL-APS 1/3** foams are compatible with all other readily expanded fire extinguishing foams.

**Compatibility with powder**

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

**Storage**

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

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