

STHAMEX-AFFF 1%

Aqueous film forming fire extinguishing foam concentrate

Description

STHAMEX-AFFF 1% is a high concentrated, aqueous film forming fire extinguishing foam based on surface active agents. A combination of fluoric components, foam stabilisers and antifreezing compounds provides for its outstanding efficiency.

by the foam and prevents reignition should the foam blanket get ruptured. The foam is oil-repellent (oleophobic), i.e. it does not load itself with petroleum products and is, therefore ideal for sub-surface foam application.

Properties

STHAMEX-AFFF 1% is designed for generating low and medium expansion foam and owing to its high foam density long throwing distances are achieved.

STHAMEX-AFFF 1% foam safely extinguishes class A + B fires and forms a gastight cover on liquid surfaces. It is stable on fuels with proportions of polar additives like alcohol and other additives. **STHAMEX-AFFF 1%** complies with applicable standards.

STHAMEX-AFFF 1% forms foam very readily and is therefore also suitable for use as medium expansion foam and in foam/water sprinkler systems.

The high water releasing capacity favours film formation, increases flowability, reduces the extinction time and cools the source of fire.

The aqueous film extinguishes fires even in areas not yet reached

Recommended induction rate	low expansion foam 1.0 % medium expansion foam 1.0 %
Foam expansion	depending on foam equipment and water pressure low expansion foam \geq 7 times medium expansion foam \geq 75 times
Foam stability	50 % water drainage time depending on foam equipment and water pressure low expansion foam 8 to 15 minutes medium expansion foam 4 to 6 minutes
Density	1.07 \pm 0.02 kg/l
Frost resistance	-20 °C
pH value	6.5 to 8.5
Sediment content	none
Spreading coefficient	\geq 3 mN/m
Viscosity	0 °C \leq 60 mm ² /s -20 °C \leq 200 mm ² /s

Environmental acceptability **STHAMEX-AFFF 1%** is physiologically harmless and biodegradable.

Special notes **STHAMEX-AFFF 1%** 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 to refer to the safety data sheet. users are asked

Physical properties and technical data

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Application

STHAMEX-AFFF 1% is used with all commonly available low and medium expansion foam equipment and installations for fighting fires of class A + B. This, of course includes sub-surface, semi sub-surface and sprinkler systems. Non-aspirating equipment may be used for hydrocarbon fires where the aqueous film is active even without expanded foam. The concentrate is induced at 1 % to water. Sea water, brackish water or treated industrial water does not adversely affect the excellent efficiency of this concentrate.

STHAMEX-AFFF 1% is typically used in the petrochemical and chemical industry, on airports, Onshore and Offshore, in recycling plants and locations where large fires have to be safely and reliably extinguished within a very short time.

STHAMEX-AFFF 1% is very suitable for the CAFS fire-fighting method. Thanks to its low induction rate **STHAMEX-AFFF 1%** requires only one third of the storage capacity required for foam concentrates designed for 1 % induction.

Compatibility**with other foaming agents**

For immediate usage **STHAMEX-AFFF 1%** can be mixed with any other equivalent foaming agents, independent of the mixing ratio. When **STHAMEX-AFFF 1%** stocks of foaming agents we recommend to have the quality of the available stock tested by our laboratory.

Compatibility with**other fire extinguishing foams**

STHAMEX-AFFF 1% foam is compatible with all other readily expanded fire extinguishing foams.

Compatibility with powder

STHAMEX-AFFF 1% is very suitable for the combined use with foam compatible powder.

Storage

STHAMEX-AFFF 1% 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.

Approval

STHAMEX-AFFF 1% is an officially approved fire extinguishing agent for low and medium expansion foam applications for class A + B fires.

Approval No.: PL-4/98

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