

STHAMEX-K 1 %

Synthetic fire extinguishing foam concentrate

Description

STHAMEX-K 1 % is a high concentrated fire extinguishing foam concentrate based on inter-face active agents. A combination of tensides, stabilisers and antifreezing compounds provides an efficient fire extinguishing agent.

Properties

STHAMEX-K 1 % expands very readily. Depending on the foam concentrate to air ratio a heavy, wet and flowable foam or a dry, very light foam can be generated and applied either as low, medium or high expansion foam.

STHAMEX-K 1 % foam extinguishes safely and forms a gastight cover on combustible surfaces, is resistant to heat radiation, gas and wind, thus considerably reducing the risk of re-ignition.

STHAMEX-K 1 % reduces the surface tension of water considerably and thus is an excellent wetting agent, as well.

STHAMEX-K 1 % meets the requirements of DIN EN 1568, part 1, 3.

Recommended induction rate	Low expansion foam	1.0 %
	Medium expansion foam	1.0 %
	High expansion foam	1.0 %
	Wetting agent	from 0.1 %
Foam expansion (acc. to DIN EN 1568)	Low expansion foam	up to 20times
	Medium expansion foam	≥20 up to 200 times
	High expansion foam	≥200 times
Foam stability (acc. to DIN EN 1568)	25/50 % water drainage time	
	Low expansion foam	≤10/15 minutes
	Medium expansion foam	≤15/25 minutes
	High expansion foam	≤10/15 minutes
Density at 20°C	1.035 ± 0.02 kg/l	
Frost resistance	-15 °C	
pH value	6.5 to 8.5	
Sediment content	None	
Viscosity	20 °C	≤ 20 mm ² /s
	0 °C	≤ 50 mm ² /s
	-15 °C	≤150 mm ² /s
Environmental acceptability	STHAMEX-K 1 % is physiologically harmless and easily biodegradable.	

Special notes

STHAMEX-K 1 % is not detrimental to the 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 material safety data sheet.

Physical properties and technical data

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Application

STHAMEX-K 1 % is used for generation of low, medium and high expansion foam in all commonly available equipment and systems for fighting fires of class A + B. For the suppression of gas emissions, spilled, volatile liquids can be covered preventively with **STHAMEX-K 1 %** foam and afterwards be disposed of safely. The induction rate to water is 1 %.

When used as wetting agent, e.g. for extinguishing of poorly wettable material like cotton, brown coal, pulverised coal etc. we recommend an induction rate of 0.1 %.

The use of sea water, brackish water or treated industrial water does not affect the excellent effectiveness of **STHAMEX-K 1 %**.

Low and medium expansion foam generated from **STHAMEX-K 1 %** is used for fire fighting in the open as well as inside buildings and facilities and aboard ships. High expansion foam is used to preventively flood whole rooms or to displace flammable gas/air mixtures escaping from tanks, vaults, pipe trenches etc.

Compatibility with other foam concentrates

For immediate usage, **STHAMEX-K 1 %** can be mixed with any other equivalent foaming agents, independent of the mixing ratio.

When **STHAMEX-K 1 %** is to be added to existing stocks of foaming agents we recommend to have the quality of the available stock tested by our laboratory.

Compatibility with other foams

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

Compatibility with powder

STHAMEX-K 1 % is designed for the combined use with foam compatible powders.

Storage

STHAMEX-K 1 % can be stored for long periods of time in the sealed original containers, 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-K 1 % is an officially approved foam fire extinguishing agent for low, medium and high expansion foam applications for class A + B fires. Approval No.:

acc. to DIN 14272: SP 10/99

acc. to DIN EN 1568: SP 15/2000



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