

STHAMEX-class-A

Fire extinguishing foam concentrate

Description

STHAMEX-class-A is a synthetic fire extinguishing foam for extinguishing solid matter (class A) and is based on special wetting agents.

Properties

Faster than usual foam concentrates STHAMEXclass- A penetrates the surface of combustible solids resulting in extraordinary cooling and extinguishing effectiveness. CAFS application intensifies the wetting and extinguishing effect.

The compressed air used with this application method characterises the foam properties. The foam bubbles are particularly small and stable for long lasting adherence of the foam to solids. The foam solution drains slowly and steadily onto the combustible surface which at the same time is being sheltered from heat radiation.

Thus the foam solution continuously penetrates the burning material and permanently wets its surface without draining instantly as it would be the case if only water was used. The cooling effect by constant evaporation of the extinguishing agent is being improved. The efficiency of the extinguishing agent used is increased by the multiple: compared to water the effectiveness of extinguishing agent is raised by 7-8 times.

When **STHAMEX-class-A** is used inside buildings the damage caused by water is reduced considerably.

STHAMEX-class-A complies with DIN EN 1568 standard.

Recommended induction rate	class A 0.1 % to 1 % - preferably 0.5 % -	class B low expansion foam 1.0 % medium expansion foam 1.0 % high expansion foam 1.0 %
Foam expansion (acc. to DIN EN 1568)	depending on foam equipment and water pressure	
	low expansion foam	≤20times
	medium expansion foam	≥20 to 200times
	high expansion foam	≥200times
Foam stability (acc. to DIN EN 1568)	50 % water drainage time depending on foam equipment and water pressure	
	low expansion foam	≤10/15 minutes
	medium expansion foam	≤15/25 minutes
	high expansion foam	≤10/15 minutes
Density	1.04 ± 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 -class-A is physiologically harmless and easily biodegradable.	
Special notes	<p>STHAMEX -class-A 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.</p> <p>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.</p>	

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Application

STHAMEX-class-A is designed for use with high-pressure fire extinguishing systems and Compressed Airfoam Systems for fighting class A and B fires. Used with conventional foam equipment **STHAMEX-class-A** is suitable for all low, medium and high expansion foam applications. For use as wetting agent conventional branch pipes are used. **STHAMEX-class-A** is suitable for fighting forest and bush fires by air.

For extinguishing solids **STHAMEX-class-A** is induced at 0.5 % to water; and 1.0 % for extinguishing non-polar hydrocarbons. At low induction rates the generated foam is wet and flowable; higher concentrations provide a stiff, well adhering and insulating foam. As from an induction rate of 0.1% **STHAMEX-class-A** is also used as wetting agent. Thanks to its low application concentrations only little storage capacity is required.

Compatibility with other foaming agents

For immediate usage **STHAMEX-class-A** can be mixed with any other equivalent foaming agent, independent of the mixing ratio.

When **STHAMEX-class-A** shall 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 fire extinguishing foams

The foam generated from **STHAMEX-class-A** is compatible with all other readily expanded fire extinguishing foams.

Compatibility with powder

STHAMEX-class-A is suitable for the combined use with foam compatible powders.

Storage

STHAMEX-class-A 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-class-A is an officially approved foam fire extinguishing agent for low, medium and high expansion foam applications for class A + B fires

acc. to DIN 14 272

Approval No.

SP 17/99

acc. to DIN EN 1568.

Approval No.

SP 12/03

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