

STHAMEX-SV3

Synthetic fire extinguishing foam concentrate

Description

STHAMEX-SV3 is a fire extinguishing foam concentrate based on surface active agents. A combination of tensides, stabilisers and antifreezing compounds provides an efficient fire extinguishing agent.

Small proportions of **STHAMEX-SV3** reduce the surface tension of water considerably. Therefore, the product is an excellent wetting agent as well. The flowable, stable foam extinguishes safely and forms a gastight cover on the combustible surface and resists heat radiation, evaporation and wind. Consequently the risk of re-ignition is reduced.

Properties

STHAMEX-SV3 is suitable for generating low, medium and high expansion foam used for extinguishing fires of class A + B, and – as a precaution – can also be used to suppress emissions of spilled liquids where small amounts of gas can escape.

STHAMEX-SV3 complies with applicable standards.

Recommended induction rate	low expansion foam	2.5 - 3.0 %
	medium expansion foam	2.0 - 3.0 %
	high expansion foam	1.0 - 2.0 %
	wetting agent	0.5 - 1.0 %
Foam expansion	depending on foam equipment, water pressure and induction rate	
	low expansion foam	up to 20times
	medium expansion foam	≥ 20 up to 200 times
	high expansion foam	≥ 200 up to 1500 times
Foam stability	50 % water drainage time depending on foam equipment and water pressure	
	low expansion foam	20 - 35 minutes
	medium expansion foam	15 - 20 minutes
	high expansion foam	within 10 minutes after completion of foam application the reduction of foam volume is below 10 %.
Density at 20°C	1.015 ± 0.02 kg/l	
Frost resistance	-10 °C	
pH value	6.5 to 8.5	
Sediment content	none	
Viscosity	20°C ≤	15 mm ² /s
	0°C ≤	30 mm ² /s
	-5°C ≤	40 mm ² /s
Environmental acceptability	STHAMEX-SV3 is physiologically harmless and easily biodegradable.	
Special notes	STHAMEX-SV3 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 may not be able to breathe while covered with foam. For further information users are asked to refer to the safety data sheet.	

Physical properties and technical data

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Application

STHAMEX-SV3 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. When used as wetting agent, e.g. for extinguishing of poorly wettable material such as cotton, brown coal, pulverised coal etc. the induction rate starts from 0.5 %.

The use of sea water, brackish water or treated industrial water does not affect the excellent effectiveness of **STHAMEX-SV3**.

The low and medium expansion foam generated from **STHAMEX-SV3** 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 fire extinguishing foams

For immediate usage, **STHAMEX-SV3** can be mixed with any other equivalent foaming agents, independent of the mixing ratio. When **STHAMEX-SV3** 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 fire extinguishing foams

STHAMEX-SV3 foam is compatible with all other readily expanded fire extinguishing foams.

Compatibility with powder

STHAMEX-SV3 is designed for the combined use with foam compatible powders.

Storage

STHAMEX-SV3 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.



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