

# STHAMEX-F -25

## Synthetic fire extinguishing foam concentrate

### Description

**STHAMEX-F -25** is a fire extinguishing foam based on surfactants. A combination of tensides, stabilisers and antifreezing compounds provides an efficient fire extinguishing agent.

**STHAMEX-F -25** reduces the surface tension of water and thus is an excellent wetting agent, as well. The flowable 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-F -25** meets the requirements of applicable standards.

### Properties

**STHAMEX-F -25** 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-F -25									
Recommended induction rate	<table border="0"> <tr> <td>low expansion foam</td> <td>3.0 %</td> </tr> <tr> <td>medium expansion foam</td> <td>3.0 %</td> </tr> <tr> <td>high expansion foam</td> <td>2.0 to 3.0%</td> </tr> <tr> <td>wetting agent</td> <td>0.5 to 1.0 %</td> </tr> </table>	low expansion foam	3.0 %	medium expansion foam	3.0 %	high expansion foam	2.0 to 3.0%	wetting agent	0.5 to 1.0 %
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Density	1.04 ± 0.02 kg/l								
Frost resistance	to -25 °C  STHAMEX-F -25 is also available for a frost resistance down to -15 °C and -20 °C.								
pH value	6.5 to 8.5								
Sediment content	none								
Viscosity	<table border="0"> <tr> <td>0 °C ≤</td> <td>60 mm<sup>2</sup>/s</td> </tr> <tr> <td>-15 °C ≤</td> <td>200 mm<sup>2</sup>/s</td> </tr> </table>	0 °C ≤	60 mm <sup>2</sup> /s	-15 °C ≤	200 mm <sup>2</sup> /s				
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Environmental acceptability	STHAMEX-F -25 is physiologically harmless and easily biodegradable.								
<b>Special notes</b>	STHAMEX-F -25 is not detrimental to health, provided it is used for the intended purpose. Fire extinguishing exercises and tests may have to be co-ordinated with the local authorities. When persons are sprayed with foam, please bear in mind that they will not be able. 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.								

Physical properties and technical data

**STHAMEX-F -25**

Synthetic fire extinguishing foam concentrate

**Application**

**STHAMEX-F -25** 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. The induction rate to water is between 2 % and 3 %, depending on the case of application.

When used as wetting agent, e.g. for extinguishing of poorly wettable material like cotton, brown coal, pulverised coal etc. the induction rate is 0.5 % - 1 %.

The use of sea water, brackish water or treated industrial water does not affect the excellent effectiveness of **STHAMEX-F -25**.

The low and medium expansion foam generated from **STHAMEX-F -25** 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 foaming agents**

For immediate usage **STHAMEX-F -25** can be mixed with any other equivalent foaming agents, independent of the mixing ratio. When **STHAMEX-F -25** is to be added to existing stocks of foaming agents we recommend to have the quality of the existing stock tested by our laboratory in advance.

**Compatibility with other fire extinguishing foams**

The foam generated from **STHAMEX-F -25** is compatible with all other readily expanded fire extinguishing foams.

**Compatibility with powder**

**STHAMEX-F -25** is designed for the combined use with extinguishing foam compatible powders.

**Storage**

**STHAMEX-F -25** 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.

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