

STHAMEX® 3% F-25 #9347

SYNTHETIC FOAM CONCENTRATE



Description

STHAMEX® 3% F-25 is a fire extinguishing foam based on surfactants. A combination of tensides, stabilisers and antifreezing compounds provides an efficient fire extinguishing agent.

Properties

STHAMEX® 3% F-25 expands very easily. Depending on the foam concentrate to air ratio a heavy, wet and flowable foam or a dry, very light foam can be generated and STHAMEX® 3% F-25 applied either as low, medium or high expansion foam.

STHAMEX® 3% F-25 foam extinguishes safely and forms a gastight cover on combustible surfaces, is resistant to STHAMEX® 3% F-25 heat radiation, gas and wind, thus considerably reducing the risk of re-ignition.

STHAMEX® 3% F-25 reduces the surface tension of water considerably and thus is an excellent wetting agent, as well. STHAMEX® 3% F-25 meets the requirements of DIN EN 1568.

Application

STHAMEX® 3% 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 excellent effectiveness of STHAMEX® 3% F-25 is not affected by the use of sea water, brackish water or treated industrial water. The low and medium expansion foam generated from STHAMEX® 3% 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.

Environment

None of the raw materials used in our products are banned. Our foam concentrates comply with the latest environmental regulations, such as 'Commission Regulation (EU) No 757/2010', amending '(EC) No 850/2004.' STHAMEX® 3% F-25 will also comply with the 'significant new use rule (SNUR)' for long-chain perfluoroalkyl carboxylate proposed by the Environmental Protection Agency, which will come into effect in due course.

Compatibility with other foam concentrates

Mixing for immediate use:

STHAMEX® 3% F-25 can be mixed for immediate usage with other equivalent foaming agents, independent of the mixing ratio.

Mixing for long term storage:

STHAMEX® 3% F-25 stocks must not be mixed with other synthetic class A foaming agents.

Mixing with synthetic concentrates:

STHAMEX® 3% F-25 must not be mixed with AFFF, alcohol resistant AFFF or protein foam concentrates.

Mixing with other expanded foams:

STHAMEX® 3% F-25 foams are compatible with all other readily expanded fire extinguishing foams.

Compatibility with powder

STHAMEX® 3% F-25 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

STHAMEX® 3% F-25 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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Storage

STHAMEX® 3% 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.

Shelf Life

STHAMEX® 3% F-25 has a shelf life of >10 years, if stored according to our recommendations (see technical info leaflet TM014 'Storage of Synthetic Fire Extinguishing Foam Concentrates').

Approval

STHAMEX® 3% F-25 is approved as fire extinguishing agent for fires of class A and B according to the following standards:



Certificate No.: KB-238/14
Part 3 (Heptane): IIIB/IIID
Part 1: Medium ex.

Physical properties and technical data		STHAMEX® 3% F-25		
Recommended induction rate		0,5-1%	wetting agent	solid materials
		3%	low expansion foam	solid materials + non-polar liquids
		3%	medium expansion foam	solid materials + non-polar liquids
Foam expansion* (according to EN 1568)		6 - 12	low expansion foam*	
		60 - 140	medium expansion foam*	
25%/50% water drainage time* (according to EN 1568)		5 - 10 minutes	10 - 20 minutes	low expansion foam*
		6 - 12 minutes	12 - 20 minutes	medium expansion foam*
Colour		colorless to yellow		
pH value	at 20°C	6,5 - 8,5		
Density	at 20°C	1,020 ± 0,02 g/ml		
Sediments		none		
Frost resistance		-25°C		
Viscosity	at 20°C	< 20	mm²/sec	
	at 0°C	< 60	mm²/sec	
	at -25°C	< 160	mm²/sec	
Environmental acceptability		STHAMEX® 3% F-25 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.		
Special notes		STHAMEX® 3% F-25 poses no health risk, provided it is used as intended as fire extinguishing foam. Fire fighting exercise and testing may have to be agreed with local authorities. Take into account when spraying persons with foam that they will not be able to breathe whilst covered with foam. See material safety data sheet for further information.		
* Foam expansion and drainage times may vary, depending on foam equipment and operating pressure.				



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