

STHAMEX®-Performance 1% F-10 #9147

SYNTHETIC FOAM CONCENTRATE FOR FIRE CLASSES A + B



Description

STHAMEX®-Performance 1% F-10 is a new fluorine-free, newtonian, synthetic fire extinguishing foam concentrate. It is designed for direct foam application to petroleum products.

STHAMEX®-Performance 1% F-10 is based on a new generation of surface and interface active ingredients, foam stabilisers and antifreeze agents, that are to a large extent produced from sustainable raw materials. As a result STHAMEX®-Performance 1% F-10 is readily and fully bio degradable. It contains no fluorine or silicone compounds.

Properties

STHAMEX®-Performance 1% F-10 is especially designed for very fast and efficient extinguishment of extensive fires of non-polar liquids. It forms foam very readily and produces a high quality low expansion foam.

Its special formulation reduces formation of emulsions with the fuel and allows for direct foam application to petroleum products. The fine bubble structure and compact foam blanket reduces the danger of re-ignition of areas of the fire that are already extinguished.

STHAMEX®-Performance 1% F-10 is type tested and certified by an accredited, independent testing institute in accordance with DIN EN 1568 part 3 (low expansion foam).

STHAMEX®-Performance 1% F-10 reduces the surface tension of water considerably and is therefore suitable for use as wetting agent.

Application

STHAMEX®-Performance 1% F-10 is used with all customary low expansion foam equipment and fixed foam installations for class A + B (non-polar) fires. Additional testing is required if STHAMEX®-Performance 1% F-10 is to be used in fixed fire extinguishing installations. We offer qualified, project based advice on such applications, taking into account all relevant parameters, standards and regulations. The proportioning rate to fresh water is 1%. The low viscosity of STHAMEX®-Performance 1% F-10 allows the use of all customary inductors and proportioning systems up to the lowest usable temperature of -10° C.

Fuel spillages can be covered with STHAMEX®-Performance 1% F-10 foam to prevent hazardous emissions. The foam blanket suppresses gas evaporation and prevents spreading and possible ignition

of hazardous gas.

Observe DIN VDE 0132 or equivalent regulations if used in the presence of electrical installations.

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®-Performance 1% F-10 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®-Performance 1% F-10 must not be mixed with other fire extinguishing foam concentrates, even if used immediately!

Mixing for long term storage:

STHAMEX®-Performance 1% F-10 must not be mixed with other fire extinguishing foam concentrates.

Mixing with synthetic concentrates:

STHAMEX®-Performance 1% F-10 must not be mixed with Protein-, AFFF-, AFFF/AR- or detergent foam concentrates! Even small amounts may render the products unusable.

Mixing with other expanded foams:

Foam generated with STHAMEX®-Performance 1% F-10 can be used along with other readily generated foams.

Compatibility with powder

STHAMEX®-Performance 1% F-10 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

STHAMEX®-Performance 1% F-10 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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Storage

STHAMEX®-Performance 1% F-10 can be stored long term in the original sealed containers as well as in suitable storage tanks. The efficacy of

STHAMEX®-Performance 1% F-10 is neither affected by high ambient temperatures up to +50°C nor by temporary freezing below its indicated frost resistance limit (see technical bulletin TM 014 „Storage of synthetic foam concentrates“).

Prior to replenishment we recommend a quality check of the existing stock of STHAMEX®-Performance 1% F-10 by our laboratory.

Shelf Life

STHAMEX®-Performance 1% F-10 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').

Conformity/Listings

STHAMEX®-Performance 1% F-10 is type tested and certified as fire extinguishing agent for class A + B fires according to the following standards:



EN 1568:2018 - Certificate No.: KB 25/20

Part 3 (Heptane): IIIB/-

Part 1: Medium ex. --- Part 2: High ex.

Physical properties and technical data		STHAMEX®-Performance 1% F-10		
Recommended induction rate		0,1-0,3%	wetting agent	solid materials
		0,5-1%	low expansion foam	non-polar liquids
		1%	medium expansion foam	non-polar liquids
		1%	high expansion foam	non-polar liquids
Foam expansion* (according to EN 1568)		6 - 10	low expansion foam*	
		60 - 120	medium expansion foam*	
		400 - 800	high expansion foam*	
25%/50% water drainage time* (according to EN 1568)		2 - 4 minutes	4 - 8 minutes	low expansion foam*
		1 - 3 minutes	3 - 5 minutes	medium expansion foam*
		2 - 4 minutes	4 - 6 minutes	high expansion foam*
Colour		colorless to yellow		
pH value	at 20°C	6,5 - 8,5		
Density	at 20°C	1,070 ± 0,02 g/ml		
Sediments		none		
Frost resistance		-10°C		
Viscosity	at 20°C	< 40	mm²/sec	
	at 0°C	< 100	mm²/sec	
	at -10°C	< 300	mm²/sec	
Environmental acceptability		STHAMEX®-Performance 1% F-10 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.		
Special notes		STHAMEX®-Performance 1% F-10 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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