

STHAMEX[®]-class A 0,5% F-15 #9071

SYNTHETIC FOAM CONCENTRATE



Description

STHAMEX[®]-class A 0,5% F-15 is a highly concentrated synthetic foam fire extinguishing agent. It is based on special, sustainably sourced surface active agents, stabilisers and freeze protection compounds.

STHAMEX[®]-class A 0,5% F-15 proves particularly efficient when used in combination with CAFS*.

STHAMEX[®]-class A 0,5% F-15 is fluorine-free.

Properties

STHAMEX[®]-class A 0,5% F-15 penetrates the surface of class A fuels faster than usual foam solutions. This results in an excellent cooling and extinguishing effect. The high wetting properties prove particularly efficient in connection with CAFS* applications. The compressed air used with the CAFS* foam generating method defines the foam quality. The foam is of a stable structure with fine bubbles. It adheres to class A fuels for extended periods of time during which it constantly releases water onto its surface, which, at the same time is being insulated against heat radiation. The STHAMEX[®]-class A 0,5% F-15 foam solution penetrates class A fuel continuously and dampens its surface permanently, without running off as with water. Constant evaporation of the foam solution enhances the cooling effect. Compared to water, the efficiency is multiplied 7 to 8 fold. Water damage is reduced significantly. STHAMEX[®]-class A 0,5% F-15 is silicone-free.

*CAFS: Compressed Air Foam System

Application

STHAMEX[®]-class A 0,5% F-15 is used in high-pressure fire extinguishing systems and CAFS installations for class A and B fires. Low and medium expansion foam is generated with all standard foam equipment and installations. For use as a wetting agent any standard branch pipe will do. STHAMEX[®]-class A 0,5% F-15 is also used to fight forest and bush fires from the air. The induction rate to water ranges from 0.3% - 0,5% for class A fires to 0,5% for non-polar class B fuels. Lower concentrations produce a wet, flowable foam, whereas a stiff, adhesive and insulating foam is achieved from higher concentrations. From 0.1% concentration STHAMEX[®]-class A 0,5% F-15 is used as a wetting agent. The excellent effectiveness of STHAMEX[®]-class A

0,5% F-15 is not affected by the use of sea water, brackish water or treated industrial water. Due to the low induction rates only small storage capacity is required.

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[®]-class A 0,5% F-15 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[®]-class A 0,5% F-15 can be mixed for immediate usage with other equivalent foaming agents, independent of the mixing ratio.

Mixing for long term storage:

STHAMEX[®]-class A 0,5% F-15 stocks must not be mixed with other synthetic class A foaming agents.

Mixing with synthetic concentrates:

STHAMEX[®]-class A 0,5% F-15 must not be mixed with AFFF, alcohol resistant AFFF or protein foam concentrates.

Mixing with other expanded foams:

STHAMEX[®]-class A 0,5% F-15 foams are compatible with all other readily expanded fire extinguishing foams.

Compatibility with powder

STHAMEX[®]-class A 0,5% F-15 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

STHAMEX[®]-class A 0,5% F-15 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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Storage

STHAMEX[®]-class A 0,5% F-15 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[®]-class A 0,5% F-15 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[®]-class A 0,5% F-15 is approved as fire extinguishing agent for fires of class A and B according to the following standards:



Certificate No.: KB-235/14
Part 3 (Heptane): IIID/IIID
Part 1: Medium ex.



DIN EN 3
21A

Physical properties and technical data		STHAMEX [®] -class A 0,5% F-15	
Recommended induction rate		0,1-0,3%	wetting agent
		0,3-0,5%	low expansion foam
		0,5%	medium expansion foam
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
		6 - 12 minutes	12 - 20 minutes
Colour		green	
pH value	at 20°C	6,5 - 8,5	
Density	at 20°C	1,010 ± 0,02 g/ml	
Sediments		none	
Frost resistance		-15°C	
Viscosity	at 20°C	< 40	mm ² /sec
	at 0°C	< 80	mm ² /sec
	at -15°C	< 150	mm ² /sec
Environmental acceptability		STHAMEX [®] -class A 0,5% F-15 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.	
Special notes		STHAMEX [®] -class A 0,5% F-15 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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