## **Product Data Sheet**





# **STHAMEX® FXS IAF 2% F-10** #2241



### SYNTHETIC FOAM CONCENTRATE

STHAMEX® FXS IAF 2% F-10 is a synthetic firefighting foam agent especially developed to give a particularly temperature and fume resistant high expansion foam with excellent stability against combustion gases. The low proportioning rate of only 2% offers enormous logistical advantages.

STHAMEX® FXS IAF 2% F-10 is easily and completely biodegradable and free of organic fluorine compounds\*1, preservatives and silicone compounds.

#### **Performance**

STHAMEX® FXS IAF 2% F-10 is suitable to generate high expansion foam by the "Inside Air Foam"-technique using hot fumes present in the room (operating independently from fresh air), as well as with all commercially available foam systems and equipment to generate High Expansion Foam for extinguishment of class A- and -B fires. The low proportioning rate of only 2% offers enormous logistical advantages.

With low expansion foam allows to flood large rooms completely within a short time, and displace flammable gas-air mixtures preventively from containers, rooms, pipe trenches and e.g. engine rooms on ships. High expansion foam produced from STHAMEX® FXS IAF 2% F-10 is particularly insensitive to and stable against hot (temperatures up to 1000°C) and acidic fire gases as well as strong thermal radiation.

With suitable high-expansion foam generators, STHAMEX® FXS IAF 2% F-10 produces a very even high-expansion foam with expansion rates of up to 1000:1. The use of the hot combustion gases (fumes) to make high expansion foam indoors eliminates the need for costly pressure relief systems that would be required for foam generation with outside air.

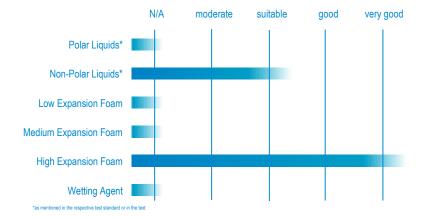
The robust formulation of STHAMEX® FXS IAF 2% F-10 grants a high level of redundancy in performance and stability against influences typical for situations of engagement.

### **Technical Specification**

Appearance	colourless/yellow
Fire Class/-es	A+B
Lowest Use Temperature	-10 [°C]
Max. Storage Temperature	max. +50 [°C]
Specific Gravity (20°C)	1,030 ± 0,02 [g/ml]
pH value (20°C)	6,5 - 8,5
Viscosity (20°C)	< 30 [mm²/sec]
Sedimentation	Sediment Free

#### Foam Properties acc. to EN1568 at 20°C

Induction Rate	2%
Expansion Rate	600 - 900
25% Drainage Time	15 - 19 [min]
50% Drainage Time	20 - 30 [min]
Expansion Types	High Expansion Foam



### **Performance Tests**



EN 1568:2008 - Approval-No.: KB 223/17 Part 2: High Expansion Foam

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We define fluorine-free as products that are manufactured without the intentional addition of fluoroorganic compounds for the purpose of improving performance in such a way that, according to currently commercially available analysis of PFAS in firefighting foam concentrates, they do not contain any quantity of fluoroorganic substances in excess of the ubiquitous regional background contamination (e.g. in the drinking water used for production).

# **Product Data Sheet**



### **Application**

STHAMEX® FXS IAF 2% F-10 can be foamed to High Expansion Foam with all commercially available foam systems and equipment and used as extinguishing foam against fires of class A fires + B (e.g. fires of plastics and mineral oil products). In addition to tap water, sea water, brackish water and treated industrial water (without foam-destroying additives) can also be used to generate foam. The proportioning rate to the fire water is 2%.

When used as a non-foaming wetting agent to extinguish hard-to-wet materials, the proportioning rate can be reduced to about one-tenth of the normal proportioning rate to fire water.

STHAMEX® FXS IAF 2% F-10 is not suitable for use on polar\*2 liquids. For extinguishing operations in the presence of or on electrical equipment, relevant standards for protection against damage by electricity (e.g. in Germany DIN/VDE-0132) must be followed.

### **Compatibility**

For immediate use (e.g. in case of emergency) STHAMEX® FXS IAF 2% F-10 can be mixed in any ratio with similar fire-fighting foam agents. When mixing different firefighting foam agents, it must be considered that the resulting mixture is a new chemical product which is not tested as firefighting foam agent and also must be re-evaluated and labeled according to hazardous materials regulations. Mixtures of STHAMEX® FXS IAF 2% F-10 with other firefighting foam concentrates are not suitable for storage - not even short term.

The foam produced from STHAMEX® FXS IAF 2% F-10 is fully compatible with all other ready expanded firefighting foams.

### Storage & Shelf Life

When synthetic firefighting foam agents and concentrates are stored, only certain materials and also only in certain combinations are suitable for permanent media contact. Our detailed Technical Information Nos. 014 (Storage of synthetic firefighting foam concentrates) and 009 (Material suitability polymers) provide information on this and other important aspects for the optimum storage of our products. Please do not hesitate to contact us.

When selecting construction materials for fixed fireghting systems disimilar metal conductivity materials should be avoided to prevent or minimize electrochemical corrosion \*3. Note that firefighting foam concentrates and application solutions made from them are electrically conductive liquids.

Elevated temperatures up to a maximum of +50°C or temporary freezing at temperatures below the specified frost resistance limit do not affect this high-quality product adversely

(see our further Technical Information on the storage of firefighting foam agents).

Before filling storage tanks, these tanks and all supply lines, pumps, valves or other parts carrying media must be thoroughly cleaned, free of grease and free of residues from a previous filling. Before filling up stocks of our *STHAMEX*® *FXS IAF 2% F-10* we recommend to have a quality test of the stock to be filled up carried out in our laboratory.

If stored according to our storage recommendations, a shelf life of well over ten years is possible.

### **Environment**

STHAMEX® FXS IAF 2% F-10 is easily and completely biodegradable and free of organic fluorine compounds\*<sup>1</sup>, preservatives and silicone compounds.

After use, all parts which were in contact to *STHAMEX*<sup>®</sup> *FXS IAF* 2% *F-10* must be thoroughly rinsed with water and cleaned to prevent any product buildup. Dried-in adhesions may require longer time soaking for removal.

Unused product (concentrate) must not be released into the environment. Disposal must be carried out in consultation with local authorities and specialised waste treatment companies. Please also note further information in our safety data sheet!

### **Transport**

STHAMEX® FXS IAF 2% F-10 is available in the following packaging units: PE-canister (20 ltr, 25 ltr and 60 ltr), PE-canister according to DIN 14452 (20 ltr); PE-drum (200 ltr), PE-IBC (600 ltr und 1.000 ltr) or bulk.

Please contact us for special packing sizes.



For further Documentation please scan the Qr code or see http://sthamer.de/qr/2241



Safety Advice: Please bear in mind that foam solutions are electroconductive liquids. The use in proximity to electrical/electronical equipment can require specific safety measures.



Safety Advice: Please see our Technical Information regarding "Mixing of Foam Concentrates" for further information

#### Disclaimer

Any information in this product data sheet bases upon our best knowledge and expertise at the time of this issue. We reserve the right to change the content of this document or adopt to newer information. Please ask for the most recent revision of this data sheet.

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flammable liquids that are miscible with water. local elements (electrochemical batteries) are created, for example, when base metals are connected conductively via an electrolyte. Mostly this leads to the destruction of the more base metal hence the part made from it.

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