



## STHAMEX®-IAF 2% F-10 #9271



### SYNTHETIC FOAM CONCENTRATE

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

#### Performance

STHAMEX®-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®-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®-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.

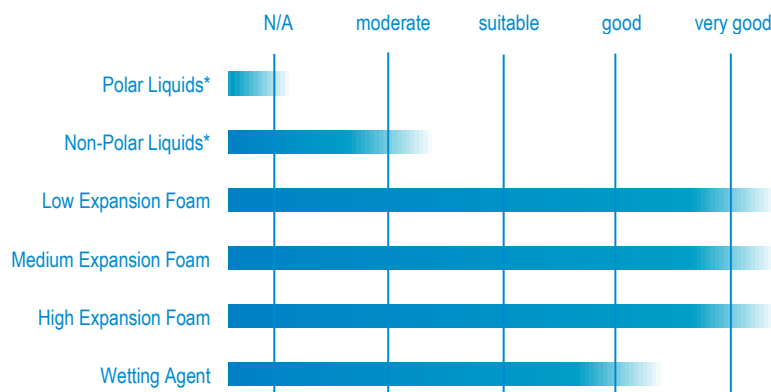
The robust formulation of STHAMEX®-IAF 2% F-10 grants a high level of redundancy in performance and stability against influences typical for situations of engagement.

#### 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



\*as mentioned in the respective test standard or in the text

#### Performance Tests

**DIN EN 1568** EN 1568:2008 - Approval-No.: KB-241/14 Part 2: High Expansion Foam

<sup>1</sup> We define fluorine-free as products that are manufactured without the intentional addition of fluororganic 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 fluororganic substances in excess of the ubiquitous regional background contamination (e.g. in the drinking water used for production).

## Application

*STHAMEX®-IAF 2% F-10* can be expanded to give high expansion foam with all commercially available foam generating systems and -equipment and used as extinguishing foam against fires of class A- and -B fires (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®-IAF 2% F-10* is not suitable for use on polar\*<sup>2</sup> 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®-IAF 2% F-10* can be mixed at any ratio with similar firefighting 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 labelled according to hazardous materials regulations. Mixtures of *STHAMEX®-IAF 2% F-10* with other firefighting foam concentrates are not suitable for storage - not even short term.

The foam produced from *STHAMEX®-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 in only 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 for further information. On short-term contact and subsequent thorough cleaning with water, # or a premix solution made from it will not corrode metals such as copper, aluminium, brass, admiralty brass or bronze.

<sup>2</sup> flammable liquids that are miscible with water.

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). Temperature should not exceed +50°C.

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®-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®-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®-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®-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/9271>



Safety Advice: Please bear in mind that foam solutions are electroconductive liquids. The use in proximity to electrical/electronic 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.

<b>Main Office Hamburg</b> Liebigstr. 5 22113 Hamburg GERMANY Tel.: +49 (0)40 73 61 68-0 Fax: +49 (0)40 73 61 68-0	<b>Sales Office Hannover</b> Hartenbrakenstr. 54 30659 Hannover GERMANY Tel.: +49 (0)511 768 358-45 Fax: +49 (0)511 768 358-46	<b>Sales Office Jena</b> Carl-Pulfrich-Str. 1 07745 Jena GERMANY Tel.: +49 (0)3641 63538-57 Fax: +49 (0)3641 63538-59	<b>Office Frankenthal</b> Siemensstr. 4 67227 Frankenthal GERMANY Tel.: +49 (0)6233 3796-605 Fax: +49 (0)6233 3796-622	<a href="mailto:info@sthamer.com">info@sthamer.com</a> <a href="http://www.sthamer.com">www.sthamer.com</a>	
---	---	--	---	--	--