Product Data Sheet





STHAMEX[®]-K 1% F-15 #9143



SYNTHETIC FOAM CONCENTRATE

STHAMEX[®]-K 1% F-15 penetrates faster than common firefighting foam agents into the surface of solid materials and thus achieves an excellent cooling and extinguishing effect. The high wetting and extinguishing effect is particularly effective in conjunction with foam generation by the CAFS process*1.

STHAMEX[®]-K 1% F-15 is easily and completely biodegradable and free of organic fluorine compounds*2, preservatives and silicone compounds.

Performance

STHAMEX[®]-K 1% F-15 is specifically designed for use with mobile foam generating equipment for Class A fires and Class B (non-polar) puddle fires, as well as for nonfoam application as a w etting agent and for use as a CAFS*1 foam.

It foams very well hence is excellent for the production of Low and Medium Expansion Foam.

Low expansion foam made from STHAMEX®-K 1% F-15 provides a particularly finebubbled, compact and stable foam blanket that sticks well to solid surfaces cooling them and insulating them very effectively against radiant heat against radiant heat. The foam blanket slowly and evenly releases foam solution to the substrate and is thus able to very efficiently wet and penetrate deeply into solid (e.g. motor vehicles, Li-ion batteries, recycling materials, etc.) and ember-forming (e.g. wood, paper, tires, ...) materials.

Medium expansion foam produced from solutions of STHAMEX®-K 1% F-15 has a homogeneous bubble structure, flows well and is stable.

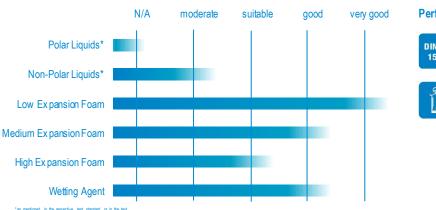
The robust formulation of STHAMEX[®]-K 1% F-15 grants a high level of redundancy in performance and stability against influences typical for situations of engagement.

Technical Specification

Appearance	colourless/yellow
Fire Class/-es	A+B
Lowest Use Temperature	-15 [°C]
Max. Storage Temperature	max. +50 [°C]
Specific Gravity (20°C)	1,010 ±0,02 [g/m]
pH value (20°C)	6,5 -8,5
Viscosity (20°C)	< 30 [mm ² /sec]
Sedimentation	Sediment Free

Foam Properties acc. to EN1568 at 20°C

Induction Rate	0,5% - 1%
Expansion Rate	6 - 10,60 - 100
25% Drainage Time	2 - 6, 2 - 6 [min]
50% Drainage Time	4 - 8, 9 - 13 [min]
Expansion Types	Low, Medium Expansion Foam



Performance Tests



EN 1568:2008 - Approval-No.: KB-233/14 Part 3 (Heptane): IIIC/IIIC Part 1: Medium Expansion Foam



DIN FN 3 27A

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 form concentrates, they do not contain any quantity of fluorogranic substances in excess of the ubiquitous regional background contamination (e.g. in the drinking water used for production).

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CAFS: Compressed Air Foam System. We define fluorine-free as products that are manufactured without the intentional addition of fluoroorganic compounds for the

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Application

STHAMEX[®]-K 1% F-15 can be foamed to Low and Medium 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 low viscosity allows the use of commercially available proportioners and dosing equipment down to the low est application temperature of The proportioning rate to the fire water is 0,5%.

The firefighting foam agent significantly reduces the surface tension of water and for this reason is very well suited as a wetting agent for use on Class A fires. 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. For use as wetting agent standard branchpipes can be used.

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 follow ed.

Compatibility

As a general rule, firefighting foam concentrates should not be mixed with each other. 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.

STHAMEX[®]-*K* 1% *F*-15 must not be mixed with other firefighting foam concentrates, even when used immediately (e.g. in case of emergency).

The foam produced from *STHAMEX*[®]-*K* 1% *F*-15 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. On short-term contact and subsequent thorough cleaning with water, *STHAMEX*[®]-*K* 1% *F*-15 or a premix solution made from it will not corrode metals such as copper, aluminum, brass, admiral-ty brass or bronze.

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®-K* 1% *F-15* 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[®]-K 1% F-15 is a liquid with the pseudoplastic properties of an alcohol-resistant firefighting foam agent concentrate for use as a replacement liquid especially for testing and commissioning systems with which viscous firefighting foam concentrates are conveyed or admixed.

After use, all parts which were in contact to *STHAMEX*[®]-*K* 1% *F*-15 must be thoroughly rinsed with water and cleaned to prevent any product buildup. Dried-in adhesions may require longer time soaking for removal.

We recommend to coordinate the discharge of the application solution into the sewage system in advance with the operator of the local wastewater treatment plant and/or the local authorities. Disposal must be carried out in consultation with local authorities and specialised waste treatment companies. Unused product (concentrate) must not be released into the environment.

Transport

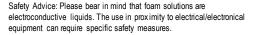
STHAMEX[®]-K 1% F-15 is available in the following packaging units: PE-canister (20 ltr, 25 ltr and 60 ltr), PE-canister according to DIN 14452 (20 ltr); PE-drum (200 ltr), PE-IBC (600 ltr und 1.000 ltr) or bulk.

Please contact us for special packing sizes.



For further Documentation please scan the Qr code or see http://sthamer.de/qr/9143





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.

Main Office Hamburg Liebigstr. 5 22113 Hamburg GERMANY TeL: +49 (0)40 73 61 68-0 Fax: +49 (0)40 73 61 68-60 Sales Office Hannover Hartenbrakenstr. 54 30659 Hannover GERMANY Tel.: +49 (0)511 768 358-45 Fax: +49 (0)511 768 358-46 Sales Office Jena Carl-Pulfrich-Str. 1 07745 Jena GERMANY Tel.: +49 (0)3641 63538-57 Fax: +49 (0)3641 63538-59 Office Frankenthal Siemensstr. 4 67227 Frankenthal GERMANY Tel.: +49 (0)6233 3796-605 Fax: +49 (0)6233 3796-622

info@sthamer.com www.sthamer.com



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