



STHAMEX®-class A 0,5% F-15 #9071



SYNTHETIC FOAM CONCENTRATE FOR FIRE CLASSES A + B

STHAMEX®-class A 0,5% F-15 is a highly concentrated synthetic firefighting foam agent based on special surface-active agents.

Special surfactants of the latest generation, foam stabilizers, polymers and antifreeze antifreeze agents are the bases of this powerful product and its very good extinguishing performance. The particularly excellent wetting and cooling properties of STHAMEX®-class A 0,5% F-15-foam allow for efficient and environmentally responsible firefighting.

STHAMEX®-class A 0,5% F-15 is easily and completely biodegradable and free of organic fluorine compounds^{*1}, preservatives and silicone compounds.

Performance

STHAMEX®-class A 0,5% 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^{*2}. The volume of compressed air used for the CAFS^{*2} foaming process is used to control the foam quality.

Low expansion foam made from STHAMEX®-class A 0,5% F-15 provides a particularly fine-bubbled, compact and stable foam blanket that sticks well to solid surfaces cooling them and insulating them very effectively 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. Rapid and even evaporation of the extinguishing agent enhances its cooling effect.

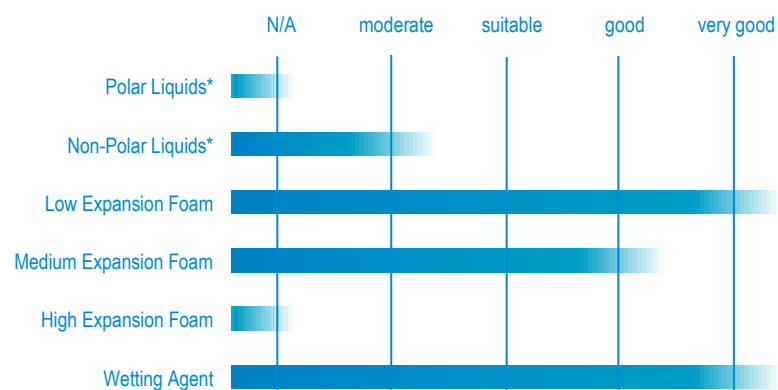
Compared to water, the efficacy increases by 7-8 times. The collateral water damage to buildings and structures resulting from firefighting operations indoors is significantly reduced.

Technical Specification

Appearance	green/green
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/ml]
pH value (20°C)	6,5 - 8,5
Viscosity (20°C)	< 40 [mm²/sec]
Sedimentation	Sediment Free

Foam Properties acc. to EN1568 at 20°C

Induction Rate	0,3% - 0,5%
Expansion Rate	5 - 9, 20 - 60
25% Drainage Time	1 - 5, 1 - 5 [min]
50% Drainage Time	4 - 8, 6 - 10 [min]
Expansion Types	Low -, Medium Expansion Foam



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

Performance Tests

DIN EN 1568 EN 1568:2008 - Approval-No.: KB-235/14
Part 3 (Heptane): IIID/IIID
Part 1: Medium Expansion Foam

DIN EN 3 21A

¹ 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).

² CAFS: Compressed Air Foam System.

Application

STHAMEX®-class A 0,5% F-15 is preferably used with high pressure extinguishing equipment and CAFS compressed air foam equipment against Class A and Class B fires. The high wetting and extinguishing effect is particularly effective in conjunction with foam generation by the CAFS process* 2.

STHAMEX®-class A 0,5% F-15 can be processed with common foam generating systems and devices to yield low - and medium expansion foam which is used to extinguish fires of fire class A (e.g. plastics, paper, wood, tires, etc.) or fires of non-polar*3 liquid hydrocarbons (e.g. oils, greases, diesel, kerosene,...). For use as wetting agent standard branchpipes can be used.

STHAMEX®-class A 0,5% F-15 is also suitable for fighting forest- and bush fires from by air-drop.

For use on Class A fires, STHAMEX®-class A 0,5% F-15 should be mixed into the fire water at a rate of 0,3-0,5%; for Class B fires, a rate of 0,5% should be used. Lower proportioning rates result in a wet, flowable foam, higher ones in a stiff, well sticking and more insulating foam. As a wetting agent for class A-fires, STHAMEX®-class A 0,5% F-15 can be proportioned into the fire water from 0,1-0,3%.

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

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 labelled according to hazardous materials regulations.

STHAMEX®-class A 0,5% 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®-class A 0,5% 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 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.

³ flammable liquids that are not miscible with water.

Before filling up stocks of our STHAMEX®-class A 0,5% F-15 we recommend to have a quality test of the stock to be filled up carried out in our laboratory.

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 fire-fighting foam agents). Temperature should not exceed +50°C. If stored according to our storage recommendations, a shelf life of well over ten years is possible.

Environment

STHAMEX®-class A 0,5% F-15 was fully toxicologically tested. All ingredients are readily and completely biodegradable.

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®-class A 0,5% 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/9071>



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.

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