



STHAMEX®-class A Classic 1% F-15 #9144



SYNTHETIC FOAM CONCENTRATE FOR FIRE CLASSES A + B

STHAMEX®-class A Classic 1% F-15 is specifically designed for use with mobile foam generating equipment for Class A fires and Class B (non-polar) pool/spill fires, as well as for non-foam application as a wetting agent and for use as a CAFS*¹ foam. The particularly excellent wetting and cooling properties of STHAMEX®-class A Classic 1% F-15-foam allow for efficient and environmentally responsible firefighting.

The low proportioning rate of only 0,5% offers enormous logistical advantages. STHAMEX®-class A Classic 1% F-15 is easily and completely biodegradable and free of organic fluorine compounds*², preservatives and silicone compounds.

Performance

STHAMEX®-class A Classic 1% F-15 is a fluorine-free*² and fully biodegradable synthetic firefighting foam agent that is particularly suitable for use as low - and medium expansion foam, as compressed air foam (CAFS) and as a wetting agent solution on Class A fires.

Low expansion foam made from STHAMEX®-class A Classic 1% 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.

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

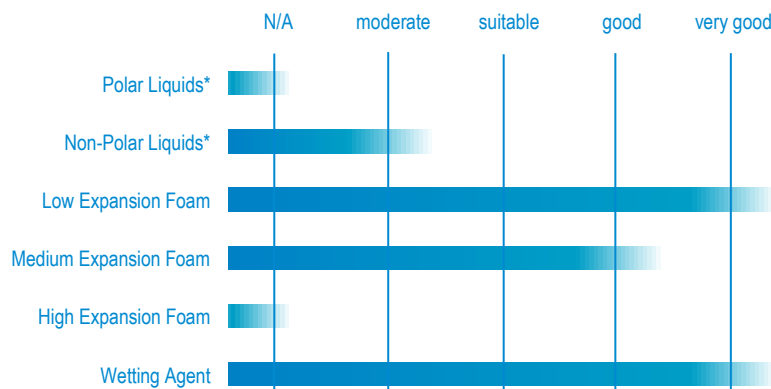
STHAMEX®-class A Classic 1% F-15 significantly reduces the surface tension of the water already at a proportioning rate of 0,1-0,3% and increases the wetting capacity, hence the efficiency of the fire water used on hard-to-wet or even water-repelling substances or surfaces.

Technical Specification

Appearance	light blue/light blue
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 [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



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

Performance Tests

DIN EN 1568 EN 1568:2008 - Approval-No.: KB-239/14
Part 3 (Heptane): IIC/IIC
Part 1: Medium Expansion Foam

DIN EN 3 27A

¹ CAFS: Compressed Air Foam System.

² 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®-class A Classic 1% 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,...).

STHAMEX®-class A Classic 1% F-15 is newtonian*⁴ and low viscous. The low viscosity allows the use of commercially available proportioners and dosing equipment down to the lowest application temperature of STHAMEX®-class A Classic 1% F-15 readily dissolves in the fire water stream to give homogeneous foam solution (premix) - a certain distance between proportioner and foam generator is not required.

In addition to tap water, sea water, brackish water and treated industrial water (without foam-destroying additives) can also be used to generate foam. For use on Class A fires, STHAMEX®-class A Classic 1% F-15 should be mixed into the fire water at a rate of 0,5%; for Class B fires, a rate of 1% should be used. The foam quality mainly depends on the foam generating equipment and the volume ratio of premix to air: a lower air content of the foam yields an easily flowable low expansion foam, increasing the air volume leads to a wet medium expansion foam.

As a wetting agent for class A-fires, STHAMEX®-class A Classic 1% F-15 can be proportioned into the fire water from 0,1-0,3%.

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 Classic 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®-class A Classic 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 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 opti-

mum storage of our products. Please do not hesitate to contact us for further information.

Before filling up stocks of our STHAMEX®-class A Classic 1% 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 Classic 1% 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 Classic 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/9144>



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.

³ flammable liquids that are not miscible with water.

⁴ For normally viscous (Newtonian) media, the flow resistance (viscosity) depends only on the liquid itself and its temperature. The acting shear forces have no influence.

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