



# STHAMEX®-IAF MARINE 1% F-10 #9146

## Synthetic foam concentrate

### Description

STHAMEX®-IAF MARINE 1% F-10 is a specially formulated high expansion foam for machinery space protection on board sea going vessels.

Flourine  
Free

STHAMEX®-IAF MARINE 1% F-10 is a fire extinguishing foam based on surfactants. A combination of tensides, stabilisers and antifreezing compounds provides an efficient fire extinguishing agent.

### Properties

STHAMEX®-IAF MARINE 1% F-10 expands very easily. Depending on the foam concentrate to air ratio a heavy, wet and flowable to a dry, very light high expanded foam can be generated.

STHAMEX®-IAF MARINE 1% F-10 foam extinguishes safely and forms a gastight blanket on combustible surfaces. STHAMEX®-IAF MARINE 1% F-10 high expansion foam is resistant to heat radiation and is gas tight, thus considerably reducing the risk of reignition.

### Application

STHAMEX®-IAF MARINE 1% F-10 is used for generation of high expansion foam in all commonly available equipment and systems for fighting fires of class A + B. The induction rate to water is 1%.

STHAMEX®-IAF MARINE 1% F-10 has been especially developed for the use with sea water.

The high expansion foam generated from STHAMEX®-IAF MARINE 1% F-10 is used for fire fighting inside machinery spaces aboard ships. It is used to preventively flood whole rooms or to displace flammable gas/air mixtures escaping from tanks, vaults, pipe tunnels etc.

### Environment

None of the raw materials used in our products are banned. Our foam concentrates comply with the latest environmental regulations, such as 'Commission Regulation (EU) No 757/2010', amending '(EC) No 850/2004.'

STHAMEX®-IAF MARINE 1% F-10 will also comply with the 'significant new use rule (SNUR)' for long-chain perfluoroalkyl carboxylate proposed by the US EPA (US Environmental Protection Agency), which will come into effect in due course.

### Compatibility with other foam concentrates

STHAMEX®-IAF MARINE 1% F-10 must not be mixed with other foam products.

### Compatibility with powder

STHAMEX®-IAF MARINE 1% F-10 is suitable for the combined use with foam compatible dry chemical powders.

### Packaging

STHAMEX®-IAF MARINE 1% F-10 is available in jerrycans, plastic drums, steel drums, pallet containers (totes) and in bulk.

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### Storage

STHAMEX®-IAF MARINE 1% F-10 can be stored for long periods of time in the sealed original containers and in corrosion-resistant plastic or stainless steel tanks. High temperatures up to +50°C do not affect the quality, neither does temporary freezing at temperatures below the specified frost resistance limit.

### Shelf Life

STHAMEX®-IAF MARINE 1% F-10 has a shelf life of >10 years, if stored according to our recommendations (see technical info leaflet TM014 'Storage of Synthetic Fire Extinguishing Foam Concentrates').

### Approval

STHAMEX®-IAF MARINE 1% F-10 is approved as fire extinguishing agent for fires of class B according to the following standards:



IMO MSC/Circ. 670 High expansion foam



Fluorine Free Foam  
Does not contain PFOS, PFOA or other fluorinated chemicals

Physical properties and technical data		STHAMEX®-IAF MARINE 1% F-10	
Recommended induction rate	1%	High expansion foam	Solid materials + non-polar liquids
Foam expansion* (according to EN 1568)	500 - 1000	High expansion foam*	
25%/50% water drainage time* (according to EN 1568)	5 - 10 minutes	10 - 20 minutes	High expansion foam*
Colour	Colorless to yellow		
pH value at 20°C	6,5 - 8,5		
Density at 20°C	1,030 ± 0,02 g/ml		
Sediments	None		
Frost resistance	-10°C		
Viscosity at 20°C at 0°C at -10°C	< 50 mm²/sec < 100 mm²/sec < 200 mm²/sec		
Environmental acceptability	STHAMEX®-IAF MARINE 1% F-10 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.		
Special notes	STHAMEX®-IAF MARINE 1% F-10 poses no health risk, provided it is used as intended as fire extinguishing foam. Fire fighting exercise and testing may have to be agreed with local authorities. Take into account when spraying persons with foam that they will not be able to breathe whilst covered with foam. See material safety data sheet for further information.		

\* Foam expansion and drainage times may vary, depending on foam equipment and operating pressure.