

STHAMEX®-AFFF 3% F-15 #4341

AQUEOUS FILM FORMING FOAM CONCENTRATE



Description

STHAMEX®-AFFF 3% F-15 #4341 is a synthetic, aqueous film forming fire extinguishing foam concentrate, based on surface active agents. Special surfactants, fluorinated components and freeze protection characterise the composition of this outstanding product. Using only the latest C6 technology, the fluorinated components contained in STHAMEX®-AFFF 3% F-15 #4341 are in full compliance with Directive EU 757/2010.

Properties

STHAMEX®-AFFF 3% F-15 #4341 forms foam very readily and is used for both low and medium expansion foam applications. The film forming and re-ignition preventing ingredients of STHAMEX®-AFFF 3% F-15 #4341 provide for extremely fast and effective extinction especially when used on class B fires. The aqueous film formed out of the draining foam solution spreads extremely fast and enhances the flowing properties and burn-back resistance of the foam. The extinction time is reduced considerably and the fire source cooled. The aqueous film even extinguishes areas scarcely covered with foam and prevents re-igniting of areas, where the foam layer is ruptured. The foam is stable and in combination with the aqueous film, it forms a lasting, gastight layer on flammable areas. Due to its high foam density a long throwing range can be achieved. The foam is oleophobic, i.e. it does not pick up fuel and is therefore particularly suitable for „sub-surface“ foam application. Plastics are covered evenly and wetted thoroughly. On hydrocarbon products STHAMEX®-AFFF 3% F-15 #4341 can be applied as non-aspirated, aqueous solution by means of e.g. water monitors, water sprinklers, deluge systems etc.

STHAMEX®-AFFF 3% F-15 #4341 is not suitable for use on polar solvents, e.g. alcohols.

STHAMEX®-AFFF 3% F-15 #4341 does not contain silicones.

Application

STHAMEX®-AFFF 3% F-15 #4341 is used at 3% concentration and applied with all standard

low and medium expansion foam equipment and fixed foam installations especially for class B fires. The non-aspirated solution of STHAMEX®-AFFF 3% F-15 #4341 can be applied using water monitors, water sprinklers or deluge systems. Seawater, brackish water and treated industrial water do not affect the outstanding fire performance.

STHAMEX®-AFFF 3% F-15 #4341 is used in petrochemical industries, on airports and in on- and offshore areas. It is also used in plastics and recycling industries and generally, where large fire loads have to be extinguished safely and within the shortest time possible. When used near electrical installations observe DIN/VDE-0132, or equivalent national standards.

Compatibility

on immediate use:

STHAMEX®-AFFF 3% F-15 #4341 may be mixed at any proportion with equivalent foam concentrates if used immediately.

on storage:

Prior to replenishment, the quality of STHAMEX®-AFFF 3% F-15 #4341 stocks should be examined by our laboratory.

Blending of STHAMEX®-AFFF 3% F-15 #4341 with similar AFFF concentrates for long-term storage is not recommended unless tested and approved by our laboratory.

with other foam concentrates:

STHAMEX®-AFFF 3% F-15 #4341 must not be mixed with synthetic detergent, alcohol resistant, or protein foam concentrates.

with other expanded foams:

When deployed, STHAMEX®-AFFF 3% F-15 #4341 foam is compatible with all other generated foams.

Compatibility with powder

STHAMEX®-AFFF 3% F-15 #4341 is suitable for the combined use with foam compatible dry chemical powders.

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Storage

STHAMEX®-AFFF 3% F-15 #4341 is stored long term in the sealed original containers or in non-corrosive plastic or stainless steel tanks. High temperatures up to 50°C do not affect the quality, neither does temporary freezing below the specified frost resistance limit. (see technical leaflet TM 014 "Storage of synthetic foam concentrates"). Before re-filling foam concentrate stocks arrange for a quality check-up by our laboratory.

Approval

STHAMEX®-AFFF 3% F-15 #4341 is a type approved fire extinguishing agent for class B fires according to the following standards:



Certificate No.: KB-290/14
Part 3 (Heptane): IB/IB
Part 1: Medium ex. ---



ICAO Airport Services Manual
Low expansion foam --- Level B



IMO MSC.1/Circ. 1312 non-polar (Heptane)

Physical properties and technical data		STHAMEX®-AFFF 3% F-15 #4341	
Recommended induction rate	3% 3%	low expansion foam medium expansion foam	non-polar liquids non-polar liquids
Foam expansion* (according to EN 1568)	5 - 10 60 - 120	low expansion foam* medium expansion foam*	
25%/50% water drainage time* (according to EN 1568)	2 - 4 minutes 1 - 3 minutes	4 - 8 minutes 3 - 5 minutes	low expansion foam* medium expansion foam*
Colour	colorless to yellow		
pH value	at 20°C	6,5 - 8,5	
Density	at 20°C	1,040 ± 0,02 g/ml	
Sediments	none		
Surface tension/Spreading coefficient	< 17,0 mN/m	> 3 mN/m (Cyclohexane)	
Frost resistance	-15°C		
Viscosity	at 20°C at 0°C at -15°C	< 10 mm²/sec < 20 mm²/sec < 50 mm²/sec	
Environmental acceptability	STHAMEX®-AFFF 3% F-15 #4341 is physiologically harmless and readily bio degradable. Fluorine components are not fully degradable. See material safety data sheet for further information.		
Special notes	STHAMEX®-AFFF 3% F-15 #4341 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.



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