

vaPUREx[®] FXS PLY 1% F-0 #2150

FLUORINE FREE FOAM CONCENTRATE FOR PLASTIC MATERIAL



Description

vaPUREx[®] FXS PLY 1% F-0 is a synthetic special foam concentrate for fixed extinguishing systems and for fighting plastic fires.

vaPUREx[®] FXS PLY 1% F-0 can be used for generating low- and medium expansion foam. Surfactants based on natural renewable resources, and stabilizers components characterize the formulation of this powerful fluorine free firefighting foam.

vaPUREx[®] FXS PLY 1% F-0 is biologically easy and completely degradable, contains no fluorine or silicone compounds and no preservatives.

Properties

vaPUREx[®] FXS PLY 1% F-0 expands very easily. Depending on the foam generating components of an installation and the quantity ratio between the premix solution and the air, a flowable and wet foam (low expansion foam) can be produced with a small amount of air, and a wet and flowable foam (medium expansion foam) with higher air proportions.

vaPUREx[®] FXS PLY 1% F-0 foam extinguishes plastic fires reliably and offers a good burn back stability. The foam is insensitive and stable against heat radiation, smoke and air movements. This reduces the risk of reignition of already extinguished fires.

vaPUREx[®] FXS PLY 1% F-0 reduces the surface tension of the water considerably and is therefore very suitable for use as a wetting agent.

Application

vaPUREx[®] FXS PLY 1% F-0 is used for generating low or medium expansion foam in all commonly available foam-water sprinklers, low expansion foam sprinklers and medium expansion foam devices for extinguishing plastic fires. The proportioning rate for generating low- or medium expansion foam is 1%. The excellent effectiveness of vaPUREx[®] FXS PLY 1% F-0 is not affected by the use of sea water, brackish water or treated industrial water (without foam destroying components). The low- and medium expansion foam gene-

rated from vaPUREx[®] FXS PLY 1% F-0 can be used for firefighting in open as well as inside buildings and machinery.

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.' vaPUREx[®] FXS PLY 1% F-0 will also comply with the 'significant new use rule (SNUR)' for long-chain perfluoroalkyl carboxylate proposed by the Environmental Protection Agency, which will come into effect in due course.

Compatibility with other foam concentrates

Mixing with synthetic concentrates:

vaPUREx[®] FXS PLY 1% F-0 must not be mixed with other types of firefighting foams. Even smallest quantities mixed up can lead to impracticality of the products and to the legal consequences.

Mixing with other expanded foams:

vaPUREx[®] FXS PLY 1% F-0 foams are compatible with all other readily expanded firefighting foams.

Compatibility with powder

vaPUREx[®] FXS PLY 1% F-0 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

vaPUREx[®] FXS PLY 1% F-0 is available in jerrycans, plastic drums and in bulk containers.

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Storage

vaPUREX[®] FXS PLY 1% F-0 can be stored in sealed original containers and suitable storage tanks in the long term.

vaPUREX[®] FXS PLY 1% F-0 is not impaired in its effectiveness neither from high temperatures to + 50°C nor by temporary freezing at temperatures below the stated frost resistance limit. (See technical data sheet TM 014 "Storage of synthetic foam concentrates"). If vaPUREX[®] FXS PLY 1% F-0 supplies are to be supplemented, we recommend that the quality of the remaining amount should be checked in advance by our laboratory.

Shelf Life

vaPUREX[®] FXS PLY 1% F-0 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').

Conformity/Listings

vaPUREX[®] FXS PLY 1% F-0 is approved as firefighting foam for plastic fires according to the following:



EN 1568:2018 - Certificate No.: KB-133/19
Part 3 (Heptane): IIIC/-



VdS Approval Plastics (in preparation)

Project based Approvals and Confirmations

Physical properties and technical data		vaPUREX [®] FXS PLY 1% F-0	
Recommended induction rate	1% 1%	low expansion foam medium expansion foam	solid materials solid materials
Foam expansion* (according to EN 1568)	6 - 10 60 - 100	low expansion foam* medium expansion foam*	
25%/50% water drainage time* (according to EN 1568)	2 - 6 minutes 2 - 6 minutes	4 - 8 minutes 9 - 13 minutes	low expansion foam* medium expansion foam*
Colour	colorless to yellow		
pH value	at 20°C	6,5 - 8,5	
Density	at 20°C	1,010 ± 0,02 g/ml	
Sediments	none		
Frost resistance	0°C (prevent from freezing)		
Viscosity	at 20°C at 0°C	< 30 mm ² /sec < 60 mm ² /sec	
Environmental acceptability	vaPUREX [®] FXS PLY 1% F-0 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.		
Special notes	vaPUREX [®] FXS PLY 1% F-0 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.		



Hauptsitz Hamburg:
Liebigstraße 5 • 22113 Hamburg/Germany
Tel.: +49 (0)40 736168-0 • Fax: +49 (0)40 736168-60
info@sthamer.com • www.sthamer.com

Verkaufsbüro Hannover:
Tel.: +49 (0)511 76835845
Fax: +49 (0)511 76835846

Verkaufsbüro Jena:
Tel.: +49 (0)3641 6353857
Fax: +49 (0)3641 6353859

