

vaPUREx[®] LV 0,5% F-10 #7041

FLUORINE FREE FOAM CONCENTRATE

**Description**

vaPUREx[®] LV 0,5% F-10 is a new fluorine-free, Newtonian, synthetic fire extinguishing foam concentrate designed for direct (forceful) foam application to liquid hydrocarbon products.

vaPUREx[®] LV 0,5% F-10 bases on novel surface-active ingredients, special polymer film formers, foam stabilizers and antifreeze additives, which largely derive from renewable resources.

Consequently vaPUREx[®] LV 0,5% F-10 is readily and fully biodegradable and contains no fluorine or silicone compounds.

Properties

vaPUREx[®] LV 0,5% F-10 is especially designed for very fast and efficient extinguishment of extensive fires of non-polar liquids. It readily expands to give a high quality low expansion foam.

Its special formulation reduces formation of emulsions with the fuel and allows for direct foam application to petroleum products. The fine bubble structure and compact foam blanket effectively suppresses the re-ignition of already extinguished areas. Refreshing or topping up the foam blanket becomes less frequent.

vaPUREx[®] LV 0,5% F-10 is type tested and certified by an accredited, independent testing institute in accordance with DIN EN 1568 part 3 (low expansion foam).

vaPUREx[®] LV 0,5% F-10 reduces the surface tension of water considerably and is therefore suitable for use as wetting agent.

Application

vaPUREx[®] LV 0,5% F-10 is used with all customary low expansion foam equipment and fixed fire extinguishing installations¹ for class A + B (non-polar) fires.

The proportioning rate to fresh water is

0.5%. The low viscosity of vaPUREx[®] LV 0,5% F-10 allows the use of all customary inductors and proportioning systems up to the lowest usable temperature of -10° C.

Fuel spillages can be covered with vaPUREx[®] LV 0,5% F-10 foam to prevent hazardous emissions. The foam blanket suppresses gas evaporation and prevents spreading and possible ignition of hazardous gas.

For extinguishing applications in electrical systems, please consider the DIN/VDE-0132 standard.

Compatibility with other foam concentratesMixing for immediate use:

vaPUREx[®] LV 0,5% F-10 must not be mixed with other fire extinguishing foam concentrates, even if used immediately!

Mixing for long term storage:

vaPUREx[®] LV 0,5% F-10 must not be mixed with other fire extinguishing foam concentrates for long term storage.

Mixing with synthetic concentrates:

vaPUREx[®] LV 0,5% F-10 must not be mixed with Protein-, AFFF-, AFFF/AR- or detergent foam concentrates! Even small amounts may render the mixture unusable.

Mixing with other expanded foams:

Foam generated with vaPUREx[®] LV 0,5% F-10 can be used along with other readily generated foams.

Compatibility with powder

vaPUREx[®] LV 0,5% F-10 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

vaPUREx[®] LV 0,5% F-10 is available in plastic cans, plastic drums, IBC's (totes) and in bulk.

¹ The use in fixed fire extinguishing systems requires individual evaluation considering also necessary parameters, standards and regulations. We will be happy to assist you with the implementation and transition of your fixed system.

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Storage

vaPUREx[®] LV 0,5% F-10 can be stored long term in the original sealed containers as well as in suitable storage tanks. The efficacy of vaPUREx[®] LV 0,5% F-10 is neither affected by high ambient temperatures up to +50°C nor by temporary freezing below its indicated frost resistance limit (see technical bulletin TM 014 „Storage of synthetic foam concentrates“). Prior to replenishment we recommend a quality check of the existing stock of vaPUREx[®] LV 0,5% F-10 by our laboratory.

Shelf Life

vaPUREx[®] LV 0,5% 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').

Conformity/Listings

vaPUREx[®] LV 0,5% F-10 is third party tested on fires of class A and -B according to the following standards:



EN 1568:2018 - Certificate No.: KB 106/19
Part 3 (Heptane): IB/-
Part 1: Medium ex.

Physical properties and technical data		vaPUREx [®] LV 0,5% F-10	
Recommended induction rate	0,1% 0,5%	wetting agent low expansion foam	solid materials solid materials + non-polar liquids
Foam expansion* (according to EN 1568)	7 - 11	low expansion foam*	
25% /50% water drainage time* (according to EN 1568)	1 - 3 minutes	2 - 5 minutes	low expansion foam*
Colour	colorless to yellow		
pH value	at 20°C	6,5 - 8,5	
Density	at 20°C	1,090 ± 0,02 g/ml	
Sediments	none		
Frost resistance	-10°C		
Viscosity	at 20°C at 0°C at -10°C	< 50 mm ² /sec < 150 mm ² /sec < 350 mm ² /sec	
Environmental acceptability	vaPUREx [®] LV 0,5% F-10 is fully biodegradable. See material safety data sheet for further information.		
Special notes	vaPUREx [®] LV 0,5% 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.		



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