

vaPUREx[®] LV ICAO B 3% F-10 #7341

FLUORINE FREE FOAM CONCENTRATE



Description

vaPUREx[®] LV ICAO B 3% F-10 is a synthetic firefighting foam concentrate especially designed to meet the needs of aviation fire safety in an environmentally responsible manner.

The robust formulation of vaPUREx[®] LV ICAO B 3% F-10 provides users with a significant safety reserve on duty, a long shelf life and high tolerance to environmental influence.

vaPUREx[®] LV ICAO B 3% F-10 does not contain Silicon or Fluorine or other halogen containing ingredients hence is 100% bio-degradable.

Properties

vaPUREx[®] LV ICAO B 3% F-10 has very good foaming properties and can be used as low and medium expansion foam.

Application

vaPUREx[®] LV ICAO B 3% F-10 is used with all mobile equipment and fixed foam systems for generating low expansion foam. The induction rate is 3% for low expansion foam on fires of non-polar hydrocarbons. Spilled hydrocarbons should be covered by foam to prevent emissions. The foam blanket suppresses the evaporation of the liquid and prevents a possible ignition.

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[®] LV ICAO B 3% F-10 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 for immediate use:

vaPUREx[®] LV ICAO B 3% F-10 must not be mixed with other fire extinguishing foam concentrates, even if used immediately!

Mixing for long term storage:

vaPUREx[®] LV ICAO B 3% F-10 must not be mixed with other fire extinguishing foam concentrates. Prior to replenishment we recommend a quality check of the existing stock of vaPUREx[®] LV ICAO B 3% F-10 by our laboratory.

Mixing with synthetic concentrates:

vaPUREx[®] LV ICAO B 3% F-10 must not be mixed with Protein-, AFFF-, AFFF/AR- or detergent foam concentrates! Even small amounts may render the products unusable.

Mixing with other expanded foams:

Foam generated with vaPUREx[®] LV ICAO B 3% F-10 can be used along with other readily generated foams.

Compatibility with powder

vaPUREx[®] LV ICAO B 3% F-10 is suitable for the combined use with foam compatible dry chemical powders.

Packaging

vaPUREx[®] LV ICAO B 3% F-10 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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Storage

vaPUREX[®] LV ICAO B 3% F-10 can be stored long term in the original sealed containers as well as in suitable storage tanks. The efficacy of vaPUREX[®] LV ICAO B 3% 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“).

Shelf Life

vaPUREX[®] LV ICAO B 3% 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

vaPUREX[®] LV ICAO B 3% F-10 is type tested and certified as fire extinguishing agent for class A + B fires according to the following standards:



Certificate No.: KB 224/17
Part 3 (Heptane): IIID/-
Part 3 (Kerosene): ID/-
Part 1: Medium ex.



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

Physical properties and technical data		vaPUREX [®] LV ICAO B 3% F-10	
Recommended induction rate		0,5%	wetting agent
		3%	low expansion foam
		3%	medium expansion foam
Foam expansion* (according to EN 1568)		5 - 10	low expansion foam*
		60 - 120	medium expansion foam*
25%/50% water drainage time* (according to EN 1568)		2 - 4 minutes	4 - 8 minutes
		1 - 3 minutes	3 - 5 minutes
Colour		colorless to yellow	
pH value	at 20°C	6,5 - 8,5	
Density	at 20°C	1,070 ± 0,02 g/ml	
Sediments		none	
Frost resistance		-10°C	
Viscosity	at 20°C	< 20	mm ² /sec
	at 0°C	< 50	mm ² /sec
	at -10°C	< 120	mm ² /sec
Environmental acceptability		vaPUREX [®] LV ICAO B 3% F-10 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.	
Special notes		vaPUREX [®] LV ICAO B 3% 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.			



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