

vaPUREx[®] AR 3/3 F-15 #8341

ALCOHOL RESISTANT FOAM CONCENTRATE



Description

vaPUREx[®] AR 3/3 F-15 is a fluorine-free, synthetic, alcohol-resistant firefighting foam agent which is designed to yield a particularly high-performing low-expansion foam. It bases on special surface-active ingredients, polymer film formers, foam stabilisers and anti-freeze additives, which largely derive from renewable raw materials.

vaPUREx[®] AR 3/3 F-15 is made without any adding of fluorine, silicon organic compounds or preservatives meeting the highest standards in terms of environmental behavior.

vaPUREx[®] AR 3/3 F-15 is suitable for all areas of application on class A- and class B-fires in industrial and municipal firefighting.

Properties

vaPUREx[®] AR 3/3 F-15 is suitable for all types of water (fresh water, salt water, brackish water and treated industrial water without anti-foam additives). It produces a low expansion foam with special viscoelastic properties and an exceptionally high water retention capacity. The foam blanket of vaPUREx[®] AR 3/3 F-15 is particularly heat-stable, resistant to air movements, and gas-tight.

A special feature is the ability to self-seal openings in the foam blanket (e.g. caused by stepping into the foam) resulting from an excellent spreading of the foam blanket. This effectively suppresses the re-ignition of areas which have been already extinguished, and subsequently refreshing or topping up the foam blanket becomes less frequent.

Application

vaPUREx[®] AR 3/3 F-15 can be expanded to give low expansion foam using any commercially available foaming equipment. Since fluorine free foams do require a certain minimum foam quality, make sure the expansion ratio is sufficient. Application of non-expanded foam solution is only effective on Class A fires under certain conditions but will not be on class B fires. The proportioning ratio is 3 % v/v for fires of non-polar and polar hydrocarbons.

The high viscosity of vaPUREx[®] AR 3/3 F-15 may require a forced admixture. The suitability of the proportioning technique and/or -device should be checked beforehand. Please contact us for advice on suitable equipment or a corresponding test.

Due to its particular stability, vaPUREx[®] AR 3/3 F-15 is suitable for direct application on liquid hydrocarbons which are not miscible with water (e.g. mineral oils, petrol and diesel fuels).

A strong polymer film forms on polar hydrocarbons as a safe protection of the foam blanket against the destructive effect of the fuel. Fires of polar liquids should be extinguished with gentle foam application, e.g. via pourers or foam deflectors pointing to the tank-wall, in order to achieve best extinguishing performance (see Technical Bulletin TM 037 "Extinguishing alcohol fires").

vaPUREx[®] AR 3/3 F-15 foam is very stable and resistant to many chemicals and is therefore ideal for vapour-tight coverage of spills and leakages.

For use as a wetting agent on class A-fires, vaPUREx[®] AR 3/3 F-15 can be proportioned from 0.5 % onwards. For extinguishing applications in electrical systems, please consider the DIN/VDE- 0132 standard.

Environment

All of the raw materials used in our products are fully bio-degradable, non-persistent and free of halogenated organic compounds or silicon organic compounds.

Compatibility with other foam concentrates

Mixing for immediate use:

vaPUREx[®] AR 3/3 F-15 as a concentrate cannot be mixed with other foam extinguishing concentrates. Even the smallest quantities may render the products the resulting mixture unusable. We recommend to thoroughly rinse admixing units before changing the product.

during storage:

see above

with other foaming agents:

see above

with other ready expanded foams:

vaPUREx[®] AR 3/3 F-15 foam is compatible in use with all other ready-made extinguishing foams.

Compatibility with powder

Data on compatibility with extinguishing powders are usually generated by the manufacturers of the extinguishing powders. Test data on the compatibility of vaPUREx[®] AR 3/3 F-15 are not yet available.

Packaging

vaPUREx[®] AR 3/3 F-15 is available in jerrycans, plastic drums, iron drums, pallet containers (totes) and in bulk.

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Storage

vaPUREx® AR 3/3 F-15 can be stored long term in the originally sealed containers as well as in suitable storage tanks. If stored according to our recommendations, a life expectancy of >10 years is possible.

The efficacy of vaPUREx® AR 3/3 F-15 is neither affected by high ambient temperatures up to +50°C nor by temporary freezing below the indicated frost resistance limit (see technical information TI 014 'Storage of synthetic foam concentrates').

Prior to replenishment we recommend a quality check of the existing stock of vaPUREx® AR 3/3 F-15 by our laboratory.

Shelf Life

vaPUREx® AR 3/3 F-15 has an expectable 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® AR 3/3 F-15 is type tested and certified as fire extinguishing agent for class A + B fires according to the following standards:



Certificate No.: KB-99/19
Part 3 (Heptane): IA/IA
Part 4 (Aceton): IA/IA --- (IPA): IA/IA



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

Physical properties and technical data		vaPUREx® AR 3/3 F-15		
Recommended induction rate		0,5%	wetting agent	
		3%	low expansion foam	
		3%	low expansion foam	
Foam expansion* (according to EN 1568)		5 - 10	low expansion foam*	
	25%/50% water drainage time* (according to EN 1568)		4 - 8 minutes	8 - 15 minutes
				low expansion foam*
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		-15°C		
Viscosity	at 20°C	< 1000(600)	mPa*s bei 75(375) 1/s	
	at 0°C	< 2000 (1500)	mPa*s bei 75(375) 1/s	
	at -15°C	< 7000(4000)	mPa*s bei 75(375) 1/s	
Environmental acceptability		vaPUREx® AR 3/3 F-15 is physiologically harmless and fully biodegradable. See material safety data sheet for further information.		
Special notes		vaPUREx® AR 3/3 F-15 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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