



Dr. STHAMER HAMBURG

**Fluorine-
free**

vaPUREx[®] LV 1% F-10

The new generation class B foams

vaPUREx[®] LV 1% F-10 is a fluorine free low viscosity (Newtonian) firefighting foam concentrate providing a fast spreading and safely covering low expansion foam. With that vaPUREx[®] LV 1% F-10 is particularly suitable for forceful application onto non-polar liquid fuels (class B) giving a fast and safe vapour suppression hence high burn back stability.

All products of the new **vaPUREx[®]**-line offer the highest environmental sustainability with no compromise in performance: vaPUREx[®] LV 1% F-10 utilises a new technology of special agents active at the water surface as well as the fuel-water interface complemented by foam stabilizers and anti-freeze additives. Sustainable sourcing and performance are key criterion guiding the selection of raw materials. vaPUREx[®] LV 1% F-10 is readily and 100% biodegradable.

No fluorine compounds nor silicon compounds, preservatives or other persistent or environmentally disadvantageous substances are used.



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Properties:

- 100% fluorine free, 100% biodegradable firefighting foam agent suitable for forceful (direct) application on non-polar class B fuels (certified according EN 1568:2008, parts 1 and 3¹)
- Highly concentrated to give maximum logistical benefit
- Low viscosity Newtonian liquid hence proportionable with all common standard proportioning devices (in-line inductors, proportioning systems)
- Provides a fast flowing and safely extinguishing foam highly resistant to fuel pick-up²

Application:

- According to EN 1568:2008, part 3 suitable for forceful application onto non-polar class B fires at 1% Vol. proportioning ratio (medium expansion foam possible at elevated proportioning ratio)
- Effectively lowers the surface tension of water at 100% biodegradability hence can be used as wetting agent on class A- or wild land fires

Physical- and Application Data

		vaPUREx[®] LV 1% F-10	
Recommended Proportioning Ratio		0.5% as wetting agent 1% on class A- and non-polar class B-fires as low expansion foam 3% on class A- and non-polar class B-fires as medium expansion foam	
Expansion Ratio (according to EN 1568)		5 - 10 low expansion foam 40 - 100 medium expansion foam	
25%-/50%-Drainage Time (according to EN 1568)		1 - 3 minutes	2 - 4 minutes low expansion foam 2 - 4 minutes medium expansion foam
Lowest Temperature for use		-10 °C	
Viscosity	at 20°C	< 20 mm ² /sec	
	at 0°C	< 50 mm ² /sec	
	at 10°C	< 120 mm ² /sec	
Application		Fires of non-polar class B fuels (Hydrocarbon fires) and class A fires	
Type Approval		Listed according to EN 1568, parts 1 and 3 for low and medium foam application on fires of non-polar liquid fuels; suitable for class A fires	
Environmental Performance		vaPUREx[®] LV 1% F-10 does not contain fluorine organic compounds (fluorine free) and is moderately hazardous as concentrate and non-hazardous as 1% or 3% aqueous solution and fully biodegradable	

¹ Safety advice: For fluorine free foam agents a small scale proof-of-function-testing even on non-polar fuels is recommended. Please do not hesitate to contact us for more details!

² Fluorine free foam agents are extinguishing physically as a foam only. A successful application of non-expanded liquids onto class B fuels is not possible! Please note that the expansion also strongly depends on the expansion device.