



**Dr. STHAMER HAMBURG**

**Fluorine-  
free**

## **vaPUREx<sup>®</sup> LV 1% F-10**

### *The new generation class B foams*

vaPUREx<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup>**-line offer the highest environmental sustainability with no compromise in performance: vaPUREx<sup>®</sup> 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<sup>®</sup> 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.



[www.sthamer.com](http://www.sthamer.com)



### 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 3<sup>1</sup>)
- 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-up<sup>2</sup>

### 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

		<b>vaPUREx<sup>®</sup> LV 1% F-10</b>	
<b>Recommended Proportioning Ratio</b>		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	
<b>Expansion Ratio</b> (according to EN 1568)		5 - 10 low expansion foam 40 - 100 medium expansion foam	
<b>25%-/50%-Drainage Time</b> (according to EN 1568)		1 - 3 minutes	2 - 4 minutes low expansion foam 2 - 4 minutes medium expansion foam
<b>Lowest Temperature for use</b>		-10 °C	
<b>Viscosity</b>	at 20°C	< 20 mm <sup>2</sup> /sec	
	at 0°C	< 50 mm <sup>2</sup> /sec	
	at 10°C	< 120 mm <sup>2</sup> /sec	
<b>Application</b>		Fires of non-polar class B fuels (Hydrocarbon fires) and class A fires	
<b>Type Approval</b>		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	
<b>Environmental Performance</b>		<b>vaPUREx<sup>®</sup> LV 1% F-10</b> 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	

<sup>1</sup> 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!

<sup>2</sup> 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.