



# FOAMING AGENT CLASS B(FFF)-AR 3.0

FLUORINE-FREE HIGH-PERFORMANCE FOAMING AGENT (F3-AR)



## DESCRIPTION

One Seven class B(FFF)-AR 3.0 foaming agent has been specially developed for the environmentally friendly extinguishing of water-miscible (polar) liquids and hydrocarbon compounds. It provides a particularly dense and long-lasting foam blanket.

The proportioning rate is 3 % for extinguishing hydrocarbon fires as well as polar liquids. Of course One Seven class B-AR complies with the current EN 1568-3 and EN 1568-4 standards.

The foaming agent is ideally suited for use in compressed air foam systems (CAFS).

If the foaming agent freezes it can be used after thawing without any loss of its properties.

The fluorine-free extinguishing agent is completely biodegradable and thus a fully environmentally friendly alternative to conventional AFFF-AR products from other manufacturers.

## ADVANTAGES FOAMING AGENT CLASS B(FFF)-AR 3.0

- Fluorine-free, without persistent organic substances
- Does not contain nitrate or phosphate sources
- Extinguishing agent completely biodegradable
- Application solution not irritating to skin or eyes
- Suitable for fresh and sea water
- Usable in wide temperature range (-2 °C up to +50 °C)
- Storage time up to 25 years without loss of quality

## ONE SEVEN CLASS B(FFF)-AR 3.0

<b>Standard</b>	EN 1568-3:2018 (I-B) fresh water and sea water EN 1568-4:2018 (I-B) fresh water EN 1568-1:2018 fresh water (at 6 %) FM 5130:2014 cl.4.1 IMO MSC.1 Circ.1312
<b>Proportioning rate</b>	3.0 %
<b>Range of use</b>	<ul style="list-style-type: none"><li>Fires of polar liquids</li><li>Fires of hydrocarbon compounds</li></ul>
<b>Water film forming</b>	Yes
<b>Expansion</b>	Low, medium and high expansion foam
<b>Proportioning systems</b>	Usable with all proportioning systems acc. to EN 16327

## PHYSICAL PROPERTIES

<b>Colour</b>	Amber
<b>Density (20 °C)</b>	1.05 ± 0.01 g/cm <sup>3</sup>
<b>PH value (20 °C)</b>	7.0 - 9.0
<b>Aging resistance</b>	No stratification
<b>Viscosity (mm<sup>2</sup>/s)</b>	+20 °C: 276.2 (at 75 s <sup>-1</sup> ); 85.7 (at 375 s <sup>-1</sup> )
<b>Flow characteristics</b>	Pseudoplastic
<b>Freezing point</b>	≤ -4 °C
<b>Storage temperature</b>	0 °C ... +50 °C
<b>Operating temperature</b>	-2 °C ... +50 °C
<b>Usable with fresh and sea water</b>	Yes

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## ECOTOXICOLOGICAL DATA FOAM CONCENTRATE

<b>Biodegradability</b>	Completely biodegradable (100 % in 28 days)
<b>Water hazard classification</b>	Not hazardous to water
<b>Inhibition algae</b>	E <sub>r</sub> C <sub>50</sub> = >100 mg/l
<b>Inhibition daphnia</b>	EC <sub>50</sub> = >100 mg/l
<b>Inhibition fish</b>	LC <sub>50</sub> = >100 mg/l
<b>Skin tolerance</b>	Not irritating
<b>Eye tolerance</b>	GHS-category 1

## ECOTOXICOLOGICAL DATA APPLICATION SOLUTION 3.0 %

<b>Biodegradability</b>	Completely biodegradable (100 % in 28 days)
<b>Water hazard classification</b>	Not hazardous to water
<b>Biochemical oxygen demand</b>	BOD <sub>5</sub> = 4.6 g/l
<b>Chemical oxygen demand</b>	COD = 9.0 g/l
<b>Skin tolerance</b>	Not irritating
<b>Eye tolerance</b>	Not irritating

## CONTAINER SIZES

	Item number
20 l canister	500009296
20 l DIN canister	500009297
60 l canister	500009298
200 l barrel	500009299
1,000 l IBC	500009300