FOAMING AGENT CLASS A 0.3 %

FLUORINE-FREE HIGH-PERFORMANCE FOAMING AGENT (F3)

one seven®

FLUORINE-FREE FOAMING AGENTS
PRESERVE OUR ENVIRONMENT

A
WOOD, PAPER, TEXTILES

DESCRIPTION

The One Seven foaming agent class A is a fluorine-free high-performance foaming agent without chemical stabilizers. The extinguishing agent produced is completely biodegradable and can even be used to fight vegetation fires or in the vicinity of bodies of water.

The foaming agent has been specially developed for extinguishing ember-forming solids and therefore has excellent penetration properties. It has also been tested for use on hydrocarbon fires (class B) in accordance with EN 1568-3 (low expansion foam) and EN 1568-1 (medium expansion foam).

The foaming agent is particularly suitable for use in compressed air foam systems (CAFS). Even at the proportioning rate of 0.3 % both wet and dry foams can be produced.

Since the foaming agent does not contain polymers its low viscosity is retained even at low temperatures. If the foaming agent freezes it can still be used after thawing without any loss of its quality.

ADVANTAGES FOAMING AGENT CLASS A 0.3 %

- Optimum foaming and penetration properties with only 0.3 % proportioning rate
- Significant cost savings due to very low foaming agent consumption
- Extinguishing agent completely biodegradable, already 99 % after 7 days
- Application solution classified as „not hazardous to water“
- Application solution classified as „not irritating to skin or eyes“
- Suitable for fresh and sea water
- Usable in very wide temperature range (-20 °C up to +50 °C)
- Storage time up to 25 years without loss of quality
- No danger of slipping since no polymers are used

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ONE SEVEN CLASS A 0.3 %

Standard	LM 01-01 (MPA Dresden) EN 1568-1:2000 (0.5 %) EN 1568-3:2000 (III-C)
Proportioning rate	0.3 %
Range of use	▪ Fires of solid, ember-forming materials ▪ Fires of hydrocarbon compounds
Water film forming	No
Expansion	Low, medium and high expansion foam
Proportioning systems	Usable with all proportioning systems acc. to EN 16327
Penetration power	20 sec. acc. to ASTM D2281

PHYSICAL PROPERTIES

Colour	Yellow
Density (20 °C)	1.025 ± 0.03 g/cm³
PH value (20 °C)	7.0 - 9.0
Aging resistance	No stratification
Viscosity (mm²/s)	**+20 °C:** 21.9 (at 375 s^{-1}) **0 °C:** 61.9 (at 375 s^{-1}) **-20 °C:** 268.3 (at 375 s^{-1})
Flow characteristics	Newtonic
Freezing point	< -15 °C
Storage and operating temperature	-15 °C ... +50 °C
Usable with fresh and sea water	Yes

ECOTOXICOLOGICAL DATA FOAM CONCENTRATE

Biodegradability	Completely biodegradable (99 % after 7 days)
Water hazard classification	WHC1
Biochemical oxygen demand	BOD_5 = 450 g/l
Chemical oxygen demand	COD = 1,300 g/l
Inhibition luminescent bacteria	EC_{50} = 39.5 mg/l
Inhibition algae	E_bC_{50} = 116 mg/l; E_rC_{50} = 522 mg/l
Inhibition daphnia	EC_{50} = 98.9 mg/l
Inhibition fish	LC_{50} = 30.9 mg/l
Skin tolerance	GHS-category 2
Eye tolerance	GHS-category 1

ECOTOXICOLOGICAL DATA APPLICATION SOLUTION 0.3 %

Biodegradability	Completely biodegradable (99 % after 7 days)
Water hazard classification	Not hazardous to water
Biochemical oxygen demand	BOD_5 = 1.35 g/l
Chemical oxygen demand	COD = 3.9 g/l
Inhibition luminescent bacteria	EC_{50} = 13,200 mg/l
Inhibition algae	E_bC_{50} = 38,700 mg/l; E_rC_{50} = 174,000 mg/l
Inhibition daphnia	EC_{50} = 33,000 mg/l
Inhibition fish	LC_{50} = 10,300 mg/l
Skin tolerance	Not irritating
Eye tolerance	Not irritating

CONTAINER SIZES

	Item number
20 l canister	771052
20 l DIN canister	771047
60 l canister	771053
200 l barrel	771054
1,000 l IBC	771147

one seven®

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