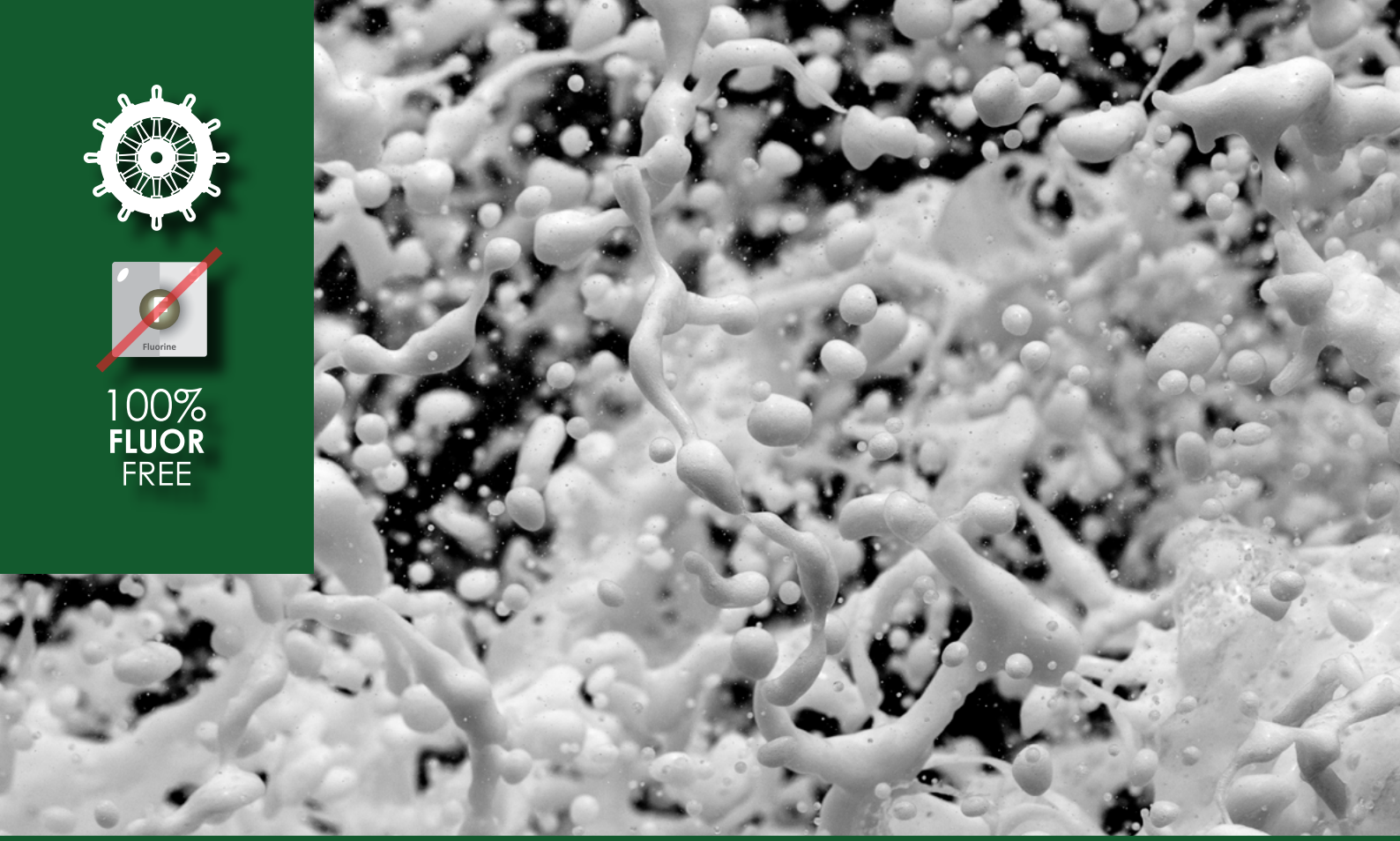

100%
FLUOR
FREE

NOBIAK®

FIREFIGHTING • GASES • MEDICAL est. 1977

FLUORINE FREE MARINE APPROVED FOAMS

3F AR FLUORINE FREE FOAM

Description

Applications

3F AR is a superior quality fluorine free foam concentrate,
designed for extinguishing and securing all types of Class B liquid fires
and Class A incidents.

3F AR has been designed specifically for emergency responders who are faced with a variety of risks in a range of situations.

3F AR is suitable for use in situations where hydrocarbons (such as diesel fuel, gasoline, crude oil) and where polar solvents (such as alcohols, ketones, esters and others) are stored, processed or transported.
It is used extensively by chemical, oil and petrochemical companies for storage tank fire protection.

3F AR is principally recommended for protection againgsfire in:

- ✓ Polar Solvents and Hydrocarbon solvents storage tanks
- ✓ Offshore platforms, Marine terminals and vessels
- ✓ Chemical Plants, Petroleum Plants and Refineries
- ✓ Hydrocarbon stroge tanks and power station
- ✓ Flammable liquid containment areas
- ✓ Process areas, Warehouses

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Technical Chanracteristics

- 3F AR is suitable for use in combination with Soft or hard, fresh or sea water.
- Dry powder extinguishing agents either separately or as twin agent systems.
- 3F AR properties do not change in case of frost.
- It recovers its initial properties as soon as it is defrosted.
- 3F AR can be applied with aspirating and non-aspirating discharge devices.
- Apirating discharge devices typically produce expansion ratios from 5 to 10, depending on the type of device and the flow rate.
- Non-aspirating devices, such as handline water fog/stream nozzles or standard sprinkler heads, typically produce expansion ratios from 2:1 to 4:1.
- Medium-expansion discharge devices typically produce expansion ratios from 20:1 to 80:1.
- High expansion generators typically produce expansion ratios from 200:1 to 800:1.

Typical Physical Properties
at 20°C

		3F AR33 FLUORINE FREE 3X3%	3F AR66 FLUORINE FREE 6X6%
Fire Classes		A – B	A – B
Admixing Ratio	Hydrocarbons	3%	6%
	Polar Solvents	3%	6%
Admixing Ratio		1,5%	2%
Appearance		Viscous Amber liquid	Viscous Amber liquid
Specific Gravity		1.07 ± 0.02 (g/ml)	1.06 ± 0.02 (g/ml)
pH		6.0 – 8.0	6.0 – 8.0
Viscosity		Non-Newtonian	Non-Newtonian
Sedimentation v/v%		≤ 0.1(%)	≤ 0.1(%)
Freezing Point		≤ -5(°C)	≤ -5(°C)
Expansion		≥ 7.00	≥ 7.00
% 25 Drainage Time, minute		≥ 6:00	≥ 6:00

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