



## ABC MacIntosh FLUOROSYNTHETIC FOAM AFFF-1%

### ① CHARACTERISTICS

**BIO HYDROFILM 1R** is a FluoroSynthetic Foam **AFFF 1%**.

**AFFF** : it forms an **Aqueous Film** on hydrocarbon fuels : the aqueous film gives a spreading foam and a total insulation from air ensuring a quick stopping of the fire. This property enhances extinction speed far better than with conventional foams.

**BIO HYDROFILM 1R** is a combination of carefully selected fluorosurfactants and hydrocarbon surfactants together with stabilisers and preservatives. Its low viscosity allows pumping whatever the equipment.

**BIO HYDROFILM 1R** produces a very fluid foam resisting to contamination with fuels, allowing a very good control of the burnback phenomenon.

**BIO HYDROFILM 1R** can be used in extinguishers either as a premixed solution or in cartridges.

### ② PHYSICAL DATA

Specific Gravity at 20°C	1.02 +/- 0.02 Kg/dm <sup>3</sup>
Ph at 20°C	8.0 +/- 0.5
Viscosity at 20°C	10 +/- 1 cStokes
Viscosity at -10°C	35 +/- 2 cStokes
Freezing point	- 22°C
Pour point	- 18°C
Sediment after ageing	< 0.1%
Surface tension at 1%	16 +/- 2 mN/m
Interfacial tension at 1%	3 +/- 1 mN/m

### ③ FOAM QUALITY AT 1%

Low Expansion	8 *
Drainage Time 25% / 50%	3 minutes / 5 minutes
Medium Expansion	40 *

\* Foam Expansion values depend on the equipment and nozzle

### ④ APPLICATION & PERFORMANCES

**BIO HYDROFILM 1R** meets international requirements and is classified as

- \* I-B in EN 1568-3 & ISO 7203-1
- \* ICAO Level B

**BIO HYDROFILM 1R** can be used at a concentration of **1%** on hydrocarbon fuels.

It can be used with tap water, hard water and sea water.

It is compatible with dry extinguishing powders.

It is suitable with all kind of known equipment.

### ⑤ WARRANTY & SERVICES

**BIO HYDROFILM 1R** has a **10** years warranty in its original packaging and at storage temperatures -30°C / +60°C.

Our Quality Control Laboratory can check your foam stock and issue analytical bulletins : **BIO-LAB** procedure.

*Safety Data* (MSDS) and *EcoTox Data* (EDS) are available upon simple request.