



### Protecta Fluorine Free

Seaguard Protecta F3 3% is a fluorine free foam concentrate designed to mimic the performance of an AFFF without the consequences of using fluorosurfactants. In response to concerns about the potential long term harmful effects of fluorosurfactants on the environment Protecta is formulated using the latest in foam technology.

#### Description

Appearance	Clear, translucent slightly viscous liq.
pH @ 20°C	7.0 – 7.2
Specific Gravity	1.01 – 1.05
Sediment	<1%
Viscosity	5-7 cPs
Freezing Point	-2°C

#### Performance

Seaguard Protecta can be used on all Class B hydrocarbon fuels such as diesel, Jet Fuel and petrol. It can be used as a premix and is compatible with dry chemical powder systems. Protecta 3% is suitable for use through all types of fixed systems, sprinkler systems, in-line proportioners (fixed or portable), branchpipes and monitors. Protecta F3 3% has a very low surface tension which enables the foam blanket to stay on the surface as well as spreading across the surface of burning fuels.

#### Approvals

Seaguard Protecta meets all the requirements of the UK MoD Defence Standard 42-40 and EN 1568-3. When

## Seaguard Protecta F3 3%

### Fluorine Free Foam

tested to EN 1568-3:2000, Seaguard Protecta has an expansion rate of 8 to 10 :1 and 25% drainage time of greater than 4 minutes.

#### Compatibility

Protecta 3% can be used with soft or hard water, fresh, salt and brackish water. It can be used as a premix and is compatible with dry chemical powder systems. Seaguard Protecta 3% is chemically compatible with major manufacturers' F3 foam concentrate. As per NFPA 11 requirement: "Different brands of the same type shall not be mixed unless data are provided by the manufacturer". As the manufacturer of the foam concentrate, Seaguard states that the Seaguard Protecta 3% foam concentrate is compatible with all major suppliers of 3% F3 foam concentrate. Seaguard Protecta 3% is compatible with finished foam solutions (expanded foam) of synthetic foams such as AFFF and AR-AFFF as well as brands of fluoroprotein, FFFP and AR-FFFP.

#### Environment

Seaguard Protecta 3% is manufactured from surface active agents and foaming agents to produce a very low environmental impact. Protecta is a fluorine free product that contains no fluorosurfactants or fluoropolymers. It is fully biodegradable and meets AS 4351-1993 standards for biodegradability. The product and resulting foam can be treated in biological waste water systems.

## Technical Data Sheet

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### ***Storage***

Protecta is stable for long term storage and a storage life of 10 years can be expected for unopened containers in proper storage conditions.

### ***Packaging***

Seaguard Protecta is available in:

20 litre drum

200 litre drums

1000 litre totes



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