

# TECHNICAL DATA SHEET

CODE:	<b>R6FFPF20 &amp; R6FFPF200</b>
DESCRIPTION:	<b>FLUORINE FREE PROTEC FOAM 6% (F3 6% FOAM) 20L &amp; 200L</b>
CATEGORY:	FLUORINE FREE FOAMS
REVISION DATE:	27 AUGUST 2020

**General:** Protec Foam 6% 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 Protec is formulated using the latest in foam technology.

**Description:** Clear, translucent slightly viscous liquid.

pH @ 20o C :	7.0 – 7.2
Specific Gravity:	1.01 – 1.05
Sediment	<1%
Viscosity:	2000 – 3000 mPas
Freezing Point:	-2o C

**Performance:** Protec Foam 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. Protec 6% is suitable for use through all types of fixed systems, sprinkler systems, in-line proportioners (fixed or portable), Branchpipes and monitors. Protec F3 6% 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:** Our Protec Foam meets all the requirements of the UK MoD Defence Standard 42-40 and END 1538-3. When testing to EN1538-3:2000, our Protec foam has an expansion rate of 8 to 10:1 and 25% drainage time of greater than 4 minutes.

**Compatibility:** Protec 6% 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.

Our Protec 6% 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, AWFS states that the Protec 6% foam concentrate is compatible with the finish foam solutions (expanded foam) of synthetic foams such as AFFF and AR-AFFF as well as brands of fluoroprotein, FFFP and AR-FFFP .

**Environment:** AWFS Protec 6% is manufactured from surface active agents and foaming agents to produce a very low environment impact. Protec 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.

**Storage:** Protec foam is stable for a long term storage life of 10 years can be expected for unopened containers in proper storage conditions.

**Packaging:** AWFS Protec Foam is available in: 20 litre drums, 200 litre drums & 1000 litre totes

