



## Petroseal<sup>C6</sup> 6

Film-Forming FluoroProtein (FFFP) Foam Concentrate

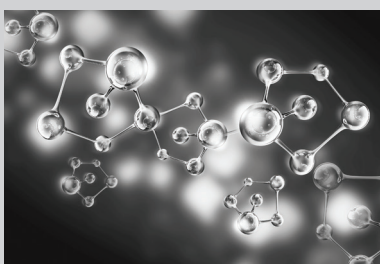
### Integrity

*Doing what's right, rather than what's convenient*

Angus Fire prides itself on the open and honest way in which we conduct our business throughout the world. Our foams are an extension of our ethical beliefs and we pride ourselves in being the responsible foam manufacturer, balancing high performance with minimal environmental impact. Our C6 foams contain no PFOA and no PFOS, in accordance with US EPA Stewardship Programme 2010/15 and EU Directive 2006/122/EC and amended Council Directive 76/769/EEC.

### C6 Fluorosurfactants

These are the most effective agents currently available to tackle serious flammable liquid fires, providing firefighter safety and asset protection. Angus foams containing C6 surfactants utilise the very latest in firefighting foam technologies, developed and refined specifically to lower the environmental impact without reducing performance.



- Cost-effective
- Highly versatile
- Film-forming for fast flame knock down and extinguishment
- Detergent-free for high resistance to fuel pick-up

**Petroseal<sup>C6</sup> 6 is a superior quality Film-Forming FluoroProtein (FFFP) fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon liquid fires.**

Its unique formulation is based on advanced protein foam technology. The protein base material provides a tough cohesive foam blanket with high resistance to heat that provides the same post-fire security as a top quality FluoroProtein (FP). Fluorochemical surface active agents combined with the protein base produce a vapour-sealing aqueous film that provides the same fast control and extinguishment as a top quality synthetic AFFF.

- Film-forming for fast flame knock down and extinguishment.
- Stable and long-lasting foam blanket for excellent burnback resistance and post-fire security.
- Detergent-free for high resistance to fuel pick-up.
- Foam blanket re-seals when ruptured by personnel or equipment.
- Reduced stocks, low cost storage, long shelf-life, and low usage levels combine to provide maximum cost-effectiveness.

### Applications

Petroseal<sup>C6</sup> 6 is the ideal fire fighting foam to use in high risk situations where hydrocarbons (such as aviation kerosene, crude oil, gasoline, and diesel fuel) are stored, processed, or transported. It is used extensively on Rapid Intervention Vehicles at major international airports and military bases where fast extinguishment and post-fire security with limited quantities of foam concentrate are essential.

### Approvals and Listings

Independently Tested and Certified to EN1568:2008 part 3.

Tested to ICAO Level B Performance.

### Equipment

Petroseal<sup>C6</sup> 6 is intended for use at 6% (6 parts concentrate to 93 parts water). Petroseal<sup>C6</sup> 6 is readily proportioned using conventional foam proportioning equipment.

Petroseal<sup>C6</sup> 6 can be used with air aspirating discharge devices such as low expansion branchpipes, monitors, top pourer sets and foam/water sprinklers where a stable foam cover is essential as well as through Mex devices.

As with any foam, Petroseal<sup>C6</sup> 6 is best applied gently on to the burning liquid surface. However, the exceptional resistance to fuel contamination of FFFP enables it to direct application.

# Petroseal<sup>C6</sup> 6

## Film-Forming FluoroProtein (FFFP) Foam Concentrate

Petroseal<sup>C6</sup> 6 can be used with non-aspirating discharge devices such as spray/fog branchpipes and nozzles, monitors, and spray/fog sprinklers for fast fire knockdown.

### Compatibility

Petroseal<sup>C6</sup> 6 is suitable for use in combination with:

- Soft or hard, fresh, brackish or sea water.
- Dry powder extinguishing agents either separately or as twin agent systems.

- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously.

### Environment

The C6 surfactants balance high performance and low environmental impact. Petroseal<sup>C6</sup> 6 demonstrates low aquatic toxicity.

### Storage

Petroseal<sup>C6</sup> 6 is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly.

### Disposal

For fire water runoff and accidental spillage please refer to Angus Fire's Foam Disposal Guide and MSDS for more information.

### Product Quality

Petroseal<sup>C6</sup> 6 is produced to rigorous quality control standards to ensure consistent fire performance and excellent product reliability.

Angus Fire operates a quality management system which complies with the requirements of BS EN ISO 9001.

### Typical Physico-Chemical Properties

Appearance		Brown liquid
Specific gravity @ 20°C (68°F)		1.08 - 1.10
pH @ 20°C (68°F)		6.9 - 7.9
Viscosity @ 20°C (68°F)	mm <sup>2</sup> sec <sup>-1</sup>	3.0 - 7.0
Maximum continuous storage temperature	°C (°F)	60 (140)
Effect of freeze/thaw		No performance loss
Lowest use temperature	°C (°F)	-6.7 (20)
Sediment as shipped	% v/v	≤ 0.1
Sediment after ageing	% v/v	≤ 0.5

### Typical Foam Properties

These vary depending on the performance characteristics of the foam.

When tested in accordance with UK Defence Specification 42-40 it gives the following typical properties

Expansion ratio	≥ 7:1
25% drainage time	≥ 2 mins

### Typical Packing Specification

	Plastic Square	Plastic Square	Plastic Cylindrical	Plastic Cylindrical	Ecobulk MX
Capacity	25 litres	5 US gallons	200 litres	55 US gallons	1000 litres
Empty weight (kg)	1.2	0.8	9.0	9.0	70
Filled weight (kg)	29	22	230	240	1170
Dimensions (mm)	448 x 286 x 286	402 x 293 x 240	580 D x 922 H	580 D x 922 H	1200 L x 1000 W x 1160 H
Part Number	FN0802G0P	FN0802T0P	FN0802J0P	FN0802W0P	FN0802L8



**EN1568:2008  
Part 3**



**EMERGENCY FOAM SERVICE** Call +44 (0) 15242 61166 – 24 hours a day, every day

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Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.

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