



**ANGUS  
FIRE**



## Alcoseal<sup>C6</sup> 3-6 LT

### Alcohol Resistant Film-Forming FluoroProtein (AR-FFF) Foam Concentrate

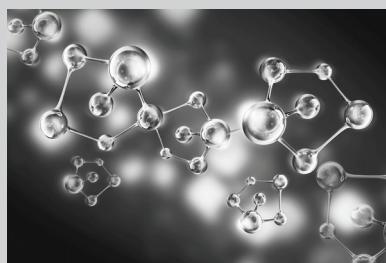
#### Integrity

*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.



#### Highly versatile

- Film-forming on hydrocarbons for fast flame knockdown and extinguishment
- Detergent-free for high resistance to fuel pick-up

Alcoseal<sup>C6</sup> 3-6 LT is a superior quality Alcohol Resistant Film-Forming FluoroProtein (AR-FFF) fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon and polar solvent 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. Fluorochemical surface active agents combined with the protein base produce a vapour-sealing aqueous film on hydrocarbons that provides the same fast control and extinguishment as a top quality synthetic AFFF. On polar solvents an insoluble polymer membrane is formed which protects the foam blanket from the solvent.

- Highly versatile and so eliminates the need to stock a variety of foam types.
- Stable and long-lasting foam blanket for excellent burnback resistance and post-fire security.
- Foam blanket re-seals when ruptured by personnel or equipment.

#### Environment

Alcoseal<sup>C6</sup> 3-6 LT is virtually non-toxic to aquatic organisms. It is based on a natural protein foaming agent and contains no harmful synthetic detergent or glycol ether.

#### Applications

Alcoseal<sup>C6</sup> 3-6 LT is the ideal fire fighting foam to use in high risk situations where hydrocarbons (such as crude oil, gasoline, diesel fuel, aviation kerosene) and/or polar solvents (such as alcohols, ketones, esters, and ethers) are stored, processed, or transported.

#### Approvals and Listings

Alcoseal<sup>C6</sup> 3-6 LT is independently tested and certified to EN1568:2008 Parts 3 & 4.

#### Equipment

Alcoseal<sup>C6</sup> 3-6 LT is intended for use at 3% (3 parts concentrate to 97 parts of water) on hydrocarbons and 6% on polar solvents.

Alcoseal<sup>C6</sup> 3-6 LT is readily proportioned using conventional foam proportioning equipment such as portable and fixed foam proportioners.

Alcoseal<sup>C6</sup> 3-6 LT can be used with air aspirating discharge devices such as low expansion branchpipes, monitors, top pourer sets.

As with any foam Alcoseal<sup>C6</sup> 3-6 LT is best applied gently on to the burning liquid surface. However, its exceptional resistance to fuel contamination enables it to withstand vigorous mixing with hydrocarbon fuel. This makes it ideal for forceful application on to hydrocarbon storage tank fires from ground-based mobile monitors or through base (sub-surface) injection systems at temperatures as low as -15°C (5°F).

Alcoseal<sup>C6</sup> 3-6 LT also produces top quality medium expansion foam when proportioned at 6% and applied through medium expansion branchpipes and bund pourers.

# Alcoseal<sup>C6</sup> 3-6 LT

## Alcohol Resistant Film-Forming FluoroProtein (AR-FFF) Foam Concentrate

Alcoseal<sup>C6</sup> 3-6 LT can be used with non-aspirating discharge devices such as spray/fog branchpipes and nozzles, monitors, and spray/fog sprinklers.

Non-aspirated application is not recommended as the primary method of attack for major fires where a stable foam cover is essential.

### Compatibility

Alcoseal<sup>C6</sup> 3-6 LT 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.

### Storage

Alcoseal<sup>C6</sup> 3-6 LT 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.

### Reliability

Alcoseal<sup>C6</sup> 3-6 LT 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)	1.10	
pH @ 20°C (68°F)	7 - 8	
Viscosity	Non-Newtonian	
Maximum continuous storage temperature	°C (°F)	60 (140)
Effect of freeze/thaw	No performance loss	
Lowest use temperature	°C (°F)	-14 (6.8)
Sediment as shipped	% v/v	≤ 0.1
Sediment after ageing	% v/v	≤ 0.5
Alcoseal <sup>C6</sup> 3-6 LT is a Non-Newtonian fluid that is pseudoplastic (shear thinning)		

### Typical Foam Properties

These vary depending on the performance characteristics of the foam.

When tested in accordance with UK Defence Specification 42-41 it gives the following typical properties

Induction rate %	3	6
Expansion ratio	≥ 7:1	≥ 7:1
25% drainage time minutes	≥ 3	≥ 6

### 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	229	239	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	FN0703GOP	FN0703TOP	FN0703JOP	FN0703WOP	FN0703L8



**EN1568:2008  
Parts 3 & 4**

**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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