



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

Alcohol Resistant Film-Forming FluoroProtein (AR-FFFP) Foam Concentrate

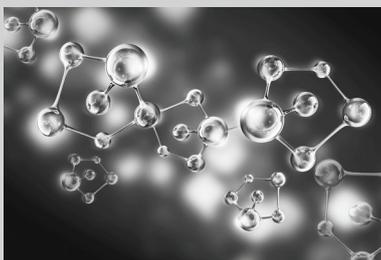
### Integrity

*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.



- 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> 3-3 is a superior quality Alcohol Resistant Film-Forming FluoroProtein (AR-FFFP) fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon and polar solvent liquid fires.**

A 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 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.

- 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> 3-3 is based on a natural protein foaming agent and contains no harmful synthetic detergent or glycol ether.

### Applications

Alcoseal<sup>C6</sup> 3-3 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. It is used extensively by industrial and municipal fire departments.

Alcoseal<sup>C6</sup> 3-3 provides a vapour-suppressing foam blanket on spills of hazardous liquids.

### Approvals and Listings

Alcoseal<sup>C6</sup> 3-3 has numerous approvals and UL Listings against Underwriters Laboratories Standard UL 162 (7th Edition).

Independently Tested and Certified to EN1568:2008 Parts 3 & 4.

### Equipment

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

Alcoseal<sup>C6</sup> 3-3 is readily proportioned using conventional foam proportioning equipment.

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

Exceptional resistance to fuel contamination makes it ideal for forceful application on to hydrocarbon storage tank fires from ground-based mobile monitors or via base (sub-surface) injection systems.

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

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

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

### Compatibility

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

### Reliability

Alcoseal<sup>C6</sup> 3-3 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 physical properties as supplied

Appearance		Dark Brown Liquid
Specific gravity @ 20°C (68°F)		1.09 - 1.13
pH @ 20°C (68°F)		6.6 - 7.6
<b>Non-Newtonian fluid that is pseudoplastic (shear thinning)</b>		
Viscosity @ 20°C (68°F) using No.4 spindle at 60 rpm	cP	850 - 1750
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing point	°C (°F)	-11 (12.2)
Effect of freeze/thaw		No loss of performance
UL Lowest use temperature	°C (°F)	1.7 (35)

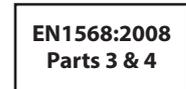
#### Typical Foam Properties

Foam generated using the U.K. Defence Standard DEF42-40 5 lpm branchpipe at 7 Bar pressure. Foam collected in a 1630 ml N.F.P.A. drainage pan.

Induction rate		3
Expansion ratio		≥ 7:1
25% drainage time	min/sec	≥ 5' 15"

#### 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	231	241	1180
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	FN0706GOP	FN0706TOP	FN0706JOP	FN0706WOP	FN0706L8



**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.