



FP70^{C6}

FluoroProtein (FP) Fire Fighting 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 fluid foam for rapid fire knockdown and extinguishment
- Unsurpassed burnback resistance and post-fire security
- Detergent-free for high resistance to fuel pick-up

FP70^{C6} is a superior quality FluoroProtein (FP) 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 provides a tough cohesive foam blanket with high resistance to heat that quickly smothers, cools, and seals the risk. Fluorochemical surface active agents combined with the protein base increase the fluidity and fuel repellency of the foam.

- Excellent sealing action on hot metal surfaces.
- Foam blanket re-seals when ruptured by personnel or equipment.

Environment

FP70^{C6} is based on a natural protein foaming agent.

Applications

FP70^{C6} is the ideal fire fighting foam to use in situations where hydrocarbon fuels such as crude oil, gasoline, and fuel oils are stored, processed, or transported. It is used extensively by major world oil and petrochemical companies for tank fire protection.

FP70^{C6} provides a vapour-suppressing foam blanket on unignited hydrocarbon spills.

Approvals and Listings

FP70^{C6} has numerous approvals and UL Listings against Underwriters Laboratories Standard UL 162 (7th Edition).

Independently Tested and Certified to EN1568:2008 Part 3.

Equipment

FP70^{C6} is intended for use at 3% at low expansion. With medium expansion equipment it can be used at 3% too, but for optimal results a 6% induction rate is recommended.

It is readily proportioned using conventional foam proportioning equipment such as portable and fixed foam proportioners.

FP70^{C6} should be used with air aspirating discharge devices such as low expansion branchpipes, monitors and top pourer sets.

As with any foam, FP70^{C6} is best applied gently on to the burning liquid surface. However, its exceptional resistance to fuel contamination enables it to withstand vigorous mixing with fuel. This makes it ideal for forceful application on to storage tank fires from ground-based mobile monitors.

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Compatibility

FP70^{C6} 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

FP70^{C6} foam concentrate 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

FP70^{C6} 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		Dark Brown Liquid
Specific gravity @ 20°C (68°F)		1.14 - 1.18
pH @ 20°C (68°F)		6.6 - 7.6
Viscosity @ 20°C (68°F)	mm ² sec ⁻¹	7.6 - 11.0
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing Point	°C (°F)	-16 (3.2)
Effect of freeze/thaw		No loss of performance
UL Lowest use temperature	°C (°F)	-6.7 (20)

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.

Expansion ratio		≥ 7:1
25% drainage time	min/sec	≥ 6'30"

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)	30	23	241	250	1230
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	FN0201G0P	FN0201T0P	FN0201J0P	FN0201W0P	FN0201L8



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.