



FP350^{C6}

FluoroProtein (FP) Fire Fighting Foam Concentrate

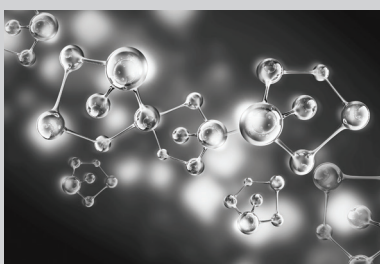
Integrity

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
- Cost-effective
- Detergent-free

FP350^{C6} is a cost-effective 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.

- Stable long-lasting foam blanket for unsurpassed burnback resistance and post-fire security.
- Highly fluid foam for rapid fire knockdown and extinguishment.
- Detergent-free for high resistance to fuel pick-up.
- Excellent sealing action on hot metal surfaces.
- Foam blanket re-seals when ruptured by personnel or equipment.

Environment

FP350^{C6} is based on a natural protein foaming agent and contains no harmful synthetic detergent or glycol ether.

Applications

FP350^{C6} is the ideal firefighting 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 hydrocarbon storage tank fire protection. Other typical applications include process areas, road/rail loading racks, power stations, marine terminals, and airports.

FP350^{C6} provides a vapour-suppressing foam blanket on unignited hydrocarbon spills.

Approvals and Listings

The fire performance of FP350^{C6} is measured primarily against Underwriters Laboratories Standard UL 162 (7th Edition).

Independently Tested and Certified to EN1568:2008 Part 3.

Equipment

FP350^{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 in-line foam venturi proportioners, handline nozzles/branchpipes with pick-up tubes, balanced pressure variable flow proportioners, balanced pressure bladder tank proportioners, and around-the-pump proportioners.

FP350^{C6} should be used with air aspirating discharge devices such as low expansion branchpipes, monitors, top pourer sets, rimseal foam pourers, and foam/water sprinklers. It also produces top quality medium expansion foam when applied through medium expansion branchpipes and bund pourers.

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As with any foam FP350C6 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.

Compatibility

FP350^{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

FP350^{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

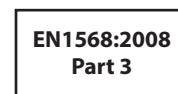
FP350^{C6} production is closely controlled and is audited by UL in accordance with their approval system.

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

Physico-Chemical Properties		
Appearance		Dark Brown Liquid
Specific gravity @ 20°C (68°F)		1.13 - 1.17
pH @ 20°C (68°F)		6.9 - 7.9
Viscosity @ 20°C (68°F)	mm ² sec ⁻¹	< 10
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing Point	°C (°F)	-13 (8.6)
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"

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	235	244	1200
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	FN0211G0P	FN0211T0P	FN0211J0P	FN0211W0P	FN0211L8



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.