



Tankmaster^{C6}

FluoroProtein (FP) Fire Fighting Foam Concentrate

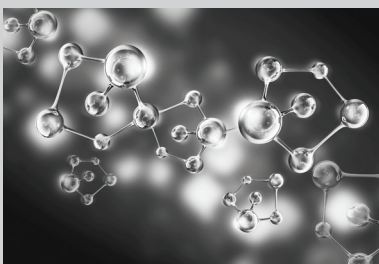
Integrity

*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
- Extraordinary burnback resistance and post-fire security
- Detergent-free for high resistance to fuel pick-up
- C6 Fluorotelomers

Tankmaster^{C6} is a superior quality FluoroProtein (FP) fire fighting foam concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Tankmaster^{C6} is a powerful and cost-effective agent for the protection of a wide range of hydrocarbons including crude oil, regular leaded gasoline and unleaded gasoline.

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 extraordinary burnback resistance and post-fire security.
- Excellent sealing action against hot metal surfaces.
- Foam blanket re-seals when ruptured by personnel or equipment.

Environment

Tankmaster^{C6} is biodegradable and virtually non-toxic to aquatic organisms. It is based on a natural protein foaming agent and contains no harmful synthetic detergent or glycol ether solvents.

Applications

Tankmaster^{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. Other typical applications include process areas, road/rail loading racks, power stations, marine terminals and airports.

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

Approvals and Listings

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

Equipment

Tankmaster^{C6} is intended for use as a 3% solution in water (3 parts concentrate to 97 parts water) at low and medium expansion.

Tankmaster^{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.

As with any foam, Tankmaster^{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 or through base (sub-surface) injection systems.

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Compatibility

Tankmaster^{C6} represents an easy upgrade for sites currently using lower performing 3% FluoroProtein or AR-AFFF products on hydrocarbon hazards.

Tankmaster^{C6} is suitable for use in combination with:

- Soft, 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

Tankmaster^{C6} is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly.

Disposal

Please refer to Angus Fire's Firewater Runoff and Accidental Spill data sheet.

Reliability

Tankmaster^{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)		1.16 - 1.23
pH @ 20°C (68°F)		7.0 - 8.0
Viscosity @ 20°C (68°F)	mm ² sec ⁻¹	30.0
Maximum continuous storage temperature	°C (°F)	40 (104)
Maximum intermittent 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	≥ 8:1
25% drainage time	≥ 8 mins

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)	31	24	251	262	1280
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	FN0204G0P	FN0204T0P	FN0204J0P	FN0204W0P	FN0204L8



EMERGENCY FOAM SERVICE Call 1800 099 255 – 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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