



JetFoam 3%

Fluorine Free (FF)
Foam Concentrate

Integrity

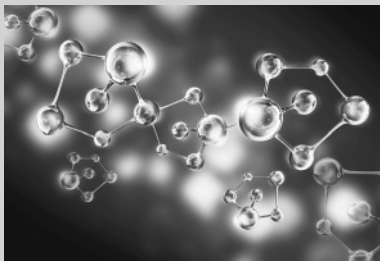
Doing what's right, rather than what's convenient

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 fluorine free foams contain no fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS.

Innovative Formulation

Angus Fire has developed a revolutionary foam specifically for the rigorous and challenging needs of the aviation sector - Angus Jetfoam 3%. It has been designed as a fluorine free foam for those circumstances when minimizing environmental persistence is paramount; to not only meet the requirements of ICAO Level B but to pass it, reliably and securely, each and every time and not only an initial certification under carefully controlled conditions.

A unique patent pending formulation for airport protection – repeatable and responsible certification.



- ✔ **Fast knock-down and extinguishment exceeding the requirements of ICAO level B.**
- ✔ **True Newtonian (low viscosity) foam to ensure accurate, easy induction and airport crash vehicle compatibility.**
- ✔ **Fluorine free to meet airport policy on minimizing environmental persistence.**

JetFoam 3% is a superior quality synthetic fluorine free (FF) foam concentrate, designed for extinguishing and securing flammable aviation fuel spills and fires (Jet A and Jet A1).

JetFoam 3% is a patent pending combination of surfactants and other ingredients and produces a vapor sealing blanket of foam that rapidly spreads over the surface of the fuel to provide rapid control and extinguishment.

- Unique patented formulation only available from Angus Fire.
- The world's first truly Newtonian fluorine free foam (it behaves like water due to not containing any polymers or gelling agents).
- Specifically designed for the aviation sector's focused risks.

Applications

JetFoam 3% is used in high risk situations where hydrocarbon fuels such as Jet-A, Jet-A1 and aviation kerosene are processed,

stored or transported. It is designed to be used on Aviation Rescue Fire Fighting vehicles (ARFF), Rapid Intervention Vehicles (RIV) and airport crash trucks where fast extinguishment is essential for saving life. JetFoam 3% provides a vapor suppressing foam blanket on Jet-A and Jet-A1 spills.

Typical Physical Properties

Appearance..... Clear Mobile Liquid
 Specific Gravity at 68°F(20°C)..... 0.99-1.01
 pH @ 68°F(20°C)8.0-9.0
 Viscosity@ 68°F(20°C)..... 2cP
 Lowest Use Temperature.....32°F(0°C)
 Max Continuous
 Storage Temperature122°F(50°C)

Approvals and Listings

JetFoam 3% is tested to EN1568:2008 part 3.

Performance exceeds the requirements of ICAO 2013 Level B fire performance and is certified to this performance level.

Equipment

JetFoam 3% is intended for use at 3% (3 parts concentrate to 97 parts water). JetFoam 3% is readily proportioned using conventional foam proportioning equipment.

JetFoam 3% should be used with air aspirating devices. Where a fire or shallow spill is involved with fire, Angus Fire always recommends the use of aspirated foam where a stable foam blanket is essential.

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Compatibility

JetFoam 3% is suitable for use in combination with:

- Potable and fresh water.
- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously.
- Dry powder extinguishing agents either separately or as twin agent systems.

JetFoam 3% should not be mixed with other foam concentrates. Such mixing could lead to chemical changes in the product and a possible reduction in or loss of fire fighting capability.

Environmental

JetFoam 3% contains no fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS.

JetFoam 3% is 100% biodegradable, however, as with any substance, care should be taken to prevent discharge from entering groundwater, surface water, or

storm drains. Disposal of JetFoam 3% foam concentrate or foam solution should be made in accordance with federal, state, and local regulations.

Storage

JetFoam 3% is ideally stored in its original shipping container or in tanks or other containers which have been designed for such foam storage. Recommended construction materials are stainless steel (Type 304L or 316), high density cross-linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50 -100 mils).

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is within the temperature range of 32°F to 122°F (0°C to 50°C). When product is stored in atmospheric storage tanks, contents must be covered with

1/4-inch (6.35mm) of Angus Fire Seal Oil to ensure prevention of air coming into contact with the foam concentrate. Use of Seal Oil is only recommended in stationary storage tanks. Refer to Angus Fire product data sheet AFC700 for further information.

Shelf Life, Inspection, and Testing

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. Properly stored Angus Fire foam concentrates have been tested and shown no significant loss of firefighting performance, even after 10 years.

Annual testing of all firefighting foam is recommended by the National Fire Protection Association (NFPA). Angus Fire provides a Technical Service Program to conduct such tests. Refer to Angus Fire product data sheet for further details on Technical Service program.

ORDERING INFORMATION

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	44.1 lb. (20.0 kg)	1.13 cu. ft. ³ (0.032 cu. m)	3180-3340-0
55-Gallon Drums (208 liters)	480.6 lb. (218.0 kg)	11.1 cu. ft. ³ (0.314 cu. m)	3180-3481-0
265-Gallon IBC Reusable Tote Tank (1000 liters)	2359.0 lb. (1070.0 kg)	48.2 cu. ft. ³ (1.365 cu. m)	3180-3625-0



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