



Firepower®

Class "A" Foam Concentrate



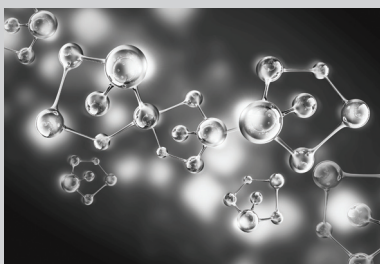
Integrity

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.

Fluorine Free Formulations

Environmentally Responsible Firepower® Class A foam concentrate is a unique fluorine free formulation designed for use in Class A/B foam systems and is excellent for Compressed Air Foam Systems (CAFS). When minimizing environmental persistence is paramount, Angus Fire's commitment and long track record of formulating specialty foam concentrates for minimal environmental impact and maximum performance offers Integrity.



- ✔ Environmentally responsible foam concentrate
- ✔ Premix is stable for more than 30 days (using potable water)
- ✔ Compatible with class A/B systems and compressed air foam systems
- ✔ Can be used with fresh, brackish and sea water, plus exhibits good formability, even in cold water
- ✔ Contains NO alcohols

Firepower® foam concentrate works in two ways. First, Firepower® improves the penetrating capability of water. It reduces the surface tension of plain water which allows it to penetrate surfaces where water might normally run off, to reach deep-seated fires. This helps reduce the amount of water required to extinguish the fire and also provides quicker knockdown. Secondly, Firepower® increases the heat absorbing capabilities of water. Foaming ingredients give water the ability to adhere to vertical surfaces which allows the water longer contact with the fuel. The longer the water is in contact with the fuel, the more heat it is able to absorb. A coating of Class A foam may also be used for exposure protection to prevent fuels from igniting by raising their moisture content and providing a tough protective barrier to an oncoming flame front.

Applications

- Structural Fire Fighting
- Forestry
- Mining
- Industrial
- Tire Fires
- Hydrocarbon Spill Control

Typical Physical Properties

Appearance.....	Colorless Liquid
Specific Gravity at 77°F(25°C).....	1.04
pH.....	8.2
Viscosity @ 77°F (25°C).....	5 cST
Viscosity @ 35°F (2°C).....	10 cST
Min Usable Temperature.....	35°F(2°C)
Max Usable Temperature.....	120°F(49°C)
Freezing Point.....	12°F (49°C)
Flash Point:	
TAG Closed Cup Method.....	>200°F

Firepower® can also be used as a training foam for non-fire scenarios proportioned at 1%, 3% or 6% to provide foam expansion similar to AFFF foam concentrates.

Storage and Handling

Firepower® should be 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).

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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 temperature range for Firepower® concentrate is 35°F (2°C) to 120°F (49°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.

Firepower® is freeze/thaw stable. Should the product freeze during shipment or storage, no performance loss is expected upon thawing.

Samples of Firepower®, premixed with potable municipal water supplies, have been shown to be stable and not suffer any significant loss of expansion or drainage properties after 30 days. Actual results may vary based on the water supply.

It is recommended that Firepower® not be mixed with any other type of foam concentrate in long term storage. Such mixing could lead to chemical changes in

the product and a possible reduction in or loss of its firefighting capability. Most expanded foams are compatible for side-by-side application during an incident.

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 Firepower® has been tested and shown no significant loss of firefighting performance, even after 20 years.

Annual testing of all firefighting foams 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 AFC400 for further details on Technical Service Program, or contact your Angus Fire representative.

Environmental and Toxicological Information

Firepower® contains no ingredients reportable under the Superfund Amendments and Reauthorization Act (SARA) Title III, Section 313 of 40 CFR-372

or the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as of July 1, 1995.

Firepower® is biodegradable. However, as with any substance, care should be taken to prevent discharge from entering ground water, surface water, or storm drains. With advance notice, Firepower® can be treated by local biological sewage treatment systems. Since facilities vary widely by location, disposal should be made in accordance with federal, state and local regulations.

Firepower® has not been tested for acute oral toxicity, primary skin and primary eye irritation. Repeated skin contact will remove oils from the skin and cause dryness. Firepower® is classified as a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective eyewear. If the foam concentrate enters the eyes, flush them well with water and seek immediate medical attention. For further details see the Firepower® Safety Data Sheet AMS222.

Ordering Information

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	46 lb. (20.9 kg)	1.13 cu. ft. ³ (0.032 cu. m)	3170-0340-6
55-Gallon Drums (208 liters)	499 lb. (226.3 kg)	11.1 cu. ft. ³ (0.314 cu. m)	3170-0481-6
275-Gallon IBC Reusable Tote Tank (1041 liters)	2519 lb. (1142.6 kg)	48.2 cu. ft. ³ (1.365 cu. m)	3170-0725-6
330-Gallon IBC Reusable Tote Tank (1249 liters)	3016 lb. (1368.1 kg)	55.8 cu. ft. ³ (1.580 cu. m)	3170-0033-6
Bulk	8.67 lb./gal. (1.04 kg/l)		3130-0001-6



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