

# First Strike™ 1% AFFF Concentrate (US-FC1)

## Technical Data Sheet

US Foam Technologies, Inc.

### DESCRIPTION

First Strike™ 1% AFFF (Aqueous Film-Forming Foam) is a synthetic firefighting foam concentrate designed for use on non-polar, hydrocarbon hazards. When proportioned with water and applied with conventional foam or water/fog equipment, it provides excellent control and extinguishment of Class B fires by spreading a vapor-sealing film over the liquid fuel. This vapor seal inhibits reflash even when the foam blanket is ruptured, and also allows the product to be used to secure non-ignited spills.

First Strike™ 1% AFFF also provides excellent penetrating and wetting qualities when used on Class A fires. This is important when extinguishing deep-seated fires in wood, paper, rubber tires and ordinary combustibles.

### RECOMMENDED APPLICATION

First Strike™ 1% AFFF is intended for use at a 1% proportioning rate (1 part concentrate to 99 parts water) on Class B hydrocarbon fuels such as gasoline, diesel fuels, fuel oils, etc. It is not suitable for use on polar solvents or water-miscible fuels such as alcohols, acetone, ethers, etc.

First Strike™ 1% AFFF can be used with conventional foam equipment with fresh, sea or brackish water. Self-educing foam nozzles and foam nozzles with in-line eductors are among the most common types of hardware for application.

In addition to its use in aspirating foam equipment, First Strike™ 1% AFFF can be dispensed effectively through non-aspirating equipment including fog nozzles, water spray devices and standard sprinklers. Additionally, it is also compatible with dry chemical fire fighting agents and may be applied to fires simultaneously.

### FEATURES

**Effective:** Rapid extinguishment reduces the chances of dangerous incidents and reduces the risk to property and equipment. First Strike™ 1% AFFF also reduces reflash and burn back, which are major causes of injuries. Its securing action of minimizes the fire hazard during cleanup of flammable liquid spills.

**Reliable:** First Strike™ 1% AFFF can be stored virtually indefinitely in approved equipment and systems. NFPA 11 recommends annual inspection of all foam systems.

**Economical:** First Strike™ 1% AFFF offers faster extinguishment than protein-based foams, so less agent is required in training and actual fire emergencies. Its wide range of applications reduces or eliminates the need to inventory other special type agents.

**Storage and Design:** First Strike™ 1% AFFF provides maximum economies in storage space and design of fixed systems.

### TYPICAL PHYSICAL PROPERTIES

Appearance: Clear, Light Amber Liquid  
Specific Gravity @ 77°F (25°C): 1.007 ± 0.025  
pH: 7.0 - 8.5  
Viscosity @ 77°F (25°C): 11.5 ± 2 cP  
Minimum Use Temperature: 35°F (2°C)  
Storage Temperature: 35° - 120°F (2° - 49°C)  
Freeze Point: 11°F (-12°C)  
Shelf Life: When properly stored in the original (or approved) sealed container and stored within the recommended temperature range, a shelf life in excess of 25 years can be expected.

### ENVIRONMENTAL INFORMATION

First Strike™ 1% AFFF concentrate undergoes a program of ongoing testing to assess the impact on the natural environment. U.S. Foam products are low in toxicity to tested aquatic organisms.

Aquatic life is not adversely affected when First Strike™ 1% AFFF is used and disposed of properly. U.S. Foam products can be successfully treated in biological waste water treatment systems.

This product does not contain any components with reportable quantities under SARA Title III Section 313.

### STORAGE

First Strike™ 1% AFFF may be stored in its shipping container without change to its original physical or chemical characteristics. It does not show significant sedimentation or precipitation in storage or after temperature cycling. Freeze/thaw cycling has no effect on performance, and the concentrate proportions satisfactorily in ordinary foam equipment at temperatures above 32°F.

Freeze/thaw cycling may cause slight stratification which may be overcome with moderate agitation. Premix solutions in fresh water may be stored long term for ready use at temperatures above freezing.

### ORDERING INFORMATION

First Strike™ 1% AFFF is available in pails, drums or totes.

Part No.	Container	Shipping Weight
1300.005	5 gallon (19 L) pail	46 lbs (21 kg)
1300.055	55 gallon (208 L) drum	485 lbs (220 kg)
1300.275	275 gallon (1041 L) tote	2460 lbs (1116 kg)

The data contained herein is provided for general informational purposes only. US Foam Technologies, Inc. reserves the right to change any portion of this technical data sheet without notice.