

# First Strike™ 1%-3% ATC/AFFF Concentrate (US-FCAR13)

## Technical Data Sheet

US Foam Technologies, Inc.

### DESCRIPTION

First Strike™ 1%-3% ATC/AFFF (Alcohol Type Concentrate/Aqueous Film-Forming Foam) is a versatile, synthetic alcohol-resistant firefighting foam concentrate for protection of a wide range of Class B flammable liquid hazards. It is designed for protection of water-soluble polar solvents, as well as water-insoluble hydrocarbon flammable liquids.

When correctly proportioned with water and applied with conventional foam-generating equipment, First Strike™ 1%-3% ATC/AFFF provides excellent extinguishment and securing abilities by spreading a vapor-suppressing film over hydrocarbon liquid fuels and a polymeric membrane on polar solvent fuels. The vapor-blanketing foam inhibits reflash even when the foam blanket is ruptured, and also allows the product to be used to secure non-ignited spills.

### RECOMMENDED APPLICATION

First Strike™ 1%-3% ATC/AFFF is intended for use at a 1% proportioning rate (1 part concentrate to 99 parts water) on hydrocarbon fuels such as gasoline, diesel fuels, fuel oils, etc. It is intended for use at a 3% proportioning rate (3 parts concentrate to 97 parts water) on polar solvents or water-miscible fuels such as alcohols, acetone, ethers, etc.

First Strike™ 1%-3% ATC/AFFF is recommended for use in a wide variety of fire fighting foam applications devices with fresh, sea or brackish water. Examples are foam chambers, forcing foam makers and aspirating foam nozzles.

In addition to its use in aspirating foam equipment, First Strike™ 1%-3% ATC/AFFF can be dispensed effectively through non-aspirating equipment including fog nozzles, water spray devices and standard sprinklers.

### FEATURES

**Aqueous Film Formation:** First Strike™ 1%-3% ATC/AFFF, like all US Foam AFFF concentrates, forms an aqueous film which flows quickly over water-insoluble hydrocarbon fuel surfaces, resulting in rapid fire extinguishment and vapor suppression.

**Polymeric Properties:** First Strike™ 1%-3% ATC/AFFF provides a membrane-like protective layer that forms on water-miscible polar solvents. The foam blanket and polymeric layer remain intact.

**Fire suppression** and vapor control are positive.

**Proportions Readily:** First Strike™ 1%-3% ATC/AFFF permits use in a wide range of proportioning equipment.

**Solution Stability:** Solutions of First Strike™ 1%-3% ATC/AFFF do not present "transit time" limitations through hand lines or in fixed systems.

### TYPICAL PHYSICAL PROPERTIES

Appearance: Off-White, Viscous Liquid  
Specific Gravity @ 77°F (25°C): 1.001 ± 0.025  
pH: 7.0 - 8.5  
Viscosity @ 77°F (25°C): 1850 ± 500 cP  
Minimum Use Temperature: 35°F (2°C)  
Storage Temperature: 35° - 120°F (2° - 49°C)  
Freeze Point: 21°F (-6°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%-3% ATC/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%-3% ATC/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%-3% ATC/AFFF may be stored in its original container within recommended temperature range without change in its physical or chemical characteristics.

If First Strike™ 1%-3% ATC/AFFF is to be stored in an atmospheric storage tank, steps should be taken to minimize the effects of evaporation on the concentrate. Pressure/vacuum vents should be employed to reduce evaporation potential. Additionally, a thin layer (~1/4 inch) of a quality mineral oil placed on the surface of the foam concentrate will further inhibit evaporation.

Freeze/thaw cycling may cause slight stratification which may be overcome with moderate agitation. After thawing, product should be inspected to ensure concentrate is homogenous. Premix solutions in fresh water may be stored long term for ready use at temperatures above freezing.

### ORDERING INFORMATION

First Strike™ 1%-3% ATC/AFFF is available in pails, drums or totes.

Part No.	Container	Shipping Weight
1400.005	5 gallon (19 L) pail	46 lbs (21 kg)
1400.055	55 gallon (208 L) drum	485 lbs (220 kg)
1400.275	275 gallon (1041 L) tote	2450 lbs (1112 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.