



Benchmark of High Standards in Fire Systems  
Design- Equipment- Manufacture- Commissioning

## **6% AQUEOUS FILM FORMING FOAM CONCENTRATE (6% AFFF)**

### **Features**

- Suitable for Use with Fresh or Salt Water
- Excellent wetting characteristics when used in combating Class A Fuel Fires
- Suitable for Use with both Aspirating foam and standard Water Fog Nozzles
- Suitable for Use with Deluge or Closed Head Foam Water Sprinkler Systems
- Suitable for Use with Carbon Steel, Fibreglass, Polyethylene or Stainless Steel but is not compatible with galvanised pipe or fittings in an undiluted form.
- Suitable for Use with all siliconised Dry Chemical Extinguishing Agents
- U.L. recommended Application Rate on Hydrocarbon type Fuels is 0.10 gpm/sq.ft (4.1 lpm/m<sup>2</sup>) for hoselines and monitor applications

### **Product Specification:**

The 6% AFFF is an advanced, totally synthetic aqueous film forming foam concentrate. A vapour suppressing aqueous film is formed by the foam solution draining from the expanded foam blanket. It is intended for use at 6% proportioning rate (6 parts AFFF concentrate to 94 parts water) on Class B hydrocarbon based flammable liquids such as gasoline, kerosene and diesel. The foam concentrate is NOT intended for use on fuels which are polar solvent/water miscible fuels such as alcohols, ketones and esters.

The 6% AFFF is designed for use with proportioning equipment such as inline eductors (fixed or portable), in-line balanced pressure and pump pressure proportioning skids, bladder tank balanced pressure proportioning systems, around-the-pump proportioners, handlines, air-aspirating branchpipes with fixed eductor pickup tubes. It is suitable for use with discharge devices including foam chambers, air-aspirating and non air-aspirating sprinklers or spray nozzles, standard water fog for handlines and monitors, air-aspirating foam nozzles and foam makers for use with either floating roof storage tanks or dike/bund protection systems and high back pressure foam makers for subsurface base injection systems (Class B hydrocarbon type fuels only).





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The 6% AFFF will provide quality protection for a wide range of hazardous areas including crash fire rescue, storage tanks, truck/rail loading or unloading facilities, processing/storage facilities, docks/marine tankers, flammable liquid containment areas and mobile equipment. To ensure the fire fighting performance requirements required in today's environment, the foam concentrate has been subject to fire tests in accordance to the fire performance requirements of U.L. 162 and UK Ministry of Defense 42-24.

### **Foaming Characteristics:**

Aspirating type discharge devices typically generate expansion ratios between 6-10 to 1 when the 6% AFFF is mixed with water at the correct ratio. Non-aspirating type devices will typically generate expansion ratio between 2-4 to 1. Expansion ratios are dictated by the type of discharge device, flow rate and discharge pressure.

### **Typical Properties at 25 deg. C**

Appearance	Colourless
Specific Gravity	0.993 - 1.013
pH	7.0 - 8.0
Viscosity	1.5 - 2.5 cps

### **Environmental Impact:**

The 6% AFFF is biodegradable, low in toxicity and can be treated in sewage treatment plants. Please refer to ProGARD Technical Bulletin regarding foam products and the environment.

### **Storage Condition:**

If kept in original manufacturer's supplied drums or pails and stored within the temperature range of 2 deg.C to 49 deg.C, a shelf life of between 20-25 years can be expected. When stored in other than the manufacturer's supplied container, please check with ProGARD for storage guidelines.

### **Ordering Information:**

The 6% AFFF is supplied in 5 gallon (19 litres) plastic pails or 55 gallon (208 litres) plastic drums or can be shipped in bulk.

<u>Part Number</u>	<u>Packing</u>	<u>Shipping Weight</u>
PGC-BFC6-P	5 gallon Pail (19 litres)	44 lbs (20 kgs)
PGC-BFC6-D	55 gallon Drum (208 litres)	485 lbs (220 kgs)