

# TECHNICAL DATA SHEET

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|----------------|----------------------------------|
| CODE:          | R6AF20L & R6A200L                |
| DESCRIPTION:   | AFFF 6% FOAM SOLUTION 20L & 200L |
| CATEGORY:      | AFFF FOAMS                       |
| REVISION DATE: | 27 AUGUST 2020                   |

**General:** 6% AFFF is a high performance aqueous film forming foam concentrate suitable for use at 6% on hydrocarbon fuels such as petrol, crude oil, diesel fuels and aviation kerosene.

**Description:** Pale yellow liquid

Density: 1.01 ± 0.02

pH: 7.5 approx.

Surface Tension: 18.5 dynes

Viscosity: <20 mm<sup>2</sup>

Freezing Point: -20 C

Sediment ≤0.01 % v/v

**Application:** The 6% AFFF is an extinguishing agent that produces a stable foam blanket for fire suppression and vapour control. The foam blanket steadily releases water to cool hot fuels. The product is to be mixed at 6 parts foam concentrate and 94 parts water. The foam concentrate contains fluorosurfactants that produces a film forming action across the surface of the burning fuel to give a very fast knock down performance.

It will generate foam through air aspirating devices to produce a foam expansion rate of between 6 : 1 and 12 : 1 depending upon the equipment. 6% AFFF is suitable for use through all types of fixed systems, sprinkler systems, in line proportioners (fixed or portable), branchpipes and monitors. 6% AFFF is measured against the UK MoD 40-42 2002 Foam Liquids Fire Extinguishing (Concentrates, Foam, and Fire Extinguishing) and meets this standard.

**Environment:** 6% AFFF is manufactured from fluorosurfactants, surface active agents and foaming agents to produce a very low environmental impact. It is fully biodegradable and meets AS 4351-1996 standards for biodegradability. The product and the resulting foam solution can be treated in biological waste water treatment systems.

**Shelf Life:** AFFF 6% will store for 15 years plus, provided the product is kept under the correct storage conditions. Typically, unopened packaging will meet these conditions. The product has a neutral pH and can be stored in vacuum vented tanks manufactured from painted mild steel, fibreglass, stainless steel and HDPE.

**Compatibility:** 6% AFFF is chemically compatible with major manufacturers' AFFF foam concentrate. As per NFPA 11 requirement: "Different brands of the same type shall not be mixed unless data are provided by the manufacturer". 6% AFFF is compatible with finished foam solutions (expanded foam) of synthetic foams such as AFFF and AR-AFFF as well as all brands of Fluoroprotein, FFFP and AR-FFFP. AFFF 6% is compatible with fresh, salt and brackish water (including bore water) as well as dry chemical powders and twin agent systems.

**Packaging:** The liquid concentrate comes in the following: 600ml charges, 20L pail, 200L drum, 1000L IBC

#### Foam Properties:

Expansion Ratio ≥7: 1

25% Drainage Time ≥ 3mins 30 secs

