

TF6

Training Foam Concentrate

- Fluorosurfactant free training foam
- Mimics the application and physical properties of Angus Petroseal 6% FFFP
- Low toxicity

A fluorosurfactant free training foam which mimics the application and physical properties of Angus Petroseal 6% FFFP fire fighting foam.

TF6 is a natural protein based product which mimics the performance of Angus Petroseal 6 FFFP, the aviation industry standard for protein based fire fighting foams, to provide realistic fire training without the use of fluorinated chemicals.

Angus Fire has a commitment and long track record of formulating foams for minimal environmental impact and maximum performance. A key element of this responsibility is to use a natural organic base material, control and reduce the quantities of fluorosurfactants and other chemicals that could be released into the environment.

The use of low toxicity training foams permits front-line fire fighters to be continuously trained in critical fire fighting techniques to ensure high performance standards of readiness are maintained. This also allows proven fluorosurfactant products to minimise the risk to fire fighter safety in the event of an emergency.

The potential for conflict between all these objectives is clear, no more so than in aviation fire fighting.

Angus Fire has developed TF6 Fluorine Free Foam (F3) for training to eliminate this conflict. It now allows foam users to meet their key objectives and responsibilities within the legislative requirements.

Description

TF6 is a Fluorine-Free Foam (F3) organic concentrate for 6% usage and has been specially formulated as a unique training foam with no fluorosurfactants. It is the first foam which can be used routinely as a substitute for fire vehicle calibration and equipment testing, to mimic the induction characteristics of Petroseal 6 FFFP while complying with European regulatory requirements including those of the UK Civil Aviation Authority and Environmental Agency.

TF6 was developed to meet the stringent environmental and regulatory requirements of the aviation sector. TF 6 also has clear training benefits for several other fire fighting applications.

Environment

TF6 is formulated for minimum environmental impact. It is produced from natural proteins, and is free of fluorinated chemicals, glycol ethers, biocides and zinc. It is also readily biodegradable. TF6 has exceptionally low aquatic toxicity to fresh and seawater organisms. It contains no synthetic detergents and so will not carry hydrocarbons through fuel separators.

Application

TF6 is suitable for use in training with conventional foam induction and delivery equipment such as the Angus Hi-Combat range of portable foam equipment. It is not recommended for real life fire fighting incidents.

Induction

6% induction is recommended to mimic the induction performance and foam quality characteristics of Petroseal 6 FFFP.

Storage Recommendations

TF6 should be stored in the original green containers. The containers are colour coded green to avoid confusion with front-line Angus fire fighting foams. TF6 is designed for use within 2 years from the date of purchase. In tropical conditions, a shelf life of no longer than 6 months from the date of purchase can be expected.

The full range of Angus Fire training foams includes:

| | |
|-----------|---------------------------|
| Trainol 3 | mimics Tridol S AFFF 3% |
| Trainol 6 | mimics Tridol S AFFF 6% |
| TF3 | mimics Petroseal FFFP 3% |
| TF6 | mimics Petroseal FFFP 6% |
| TF AL 3 | mimics Alcoseal ARFFFP 3% |

TF6

Training Foam Concentrate

Typical Physico-Chemical Properties

| | | |
|-------------------------|-----------------------------------|---------|
| Specific gravity | | 1.12 |
| pH | | 7 |
| Viscosity @ 20°C (68°F) | mm ² sec ⁻¹ | 512 |
| Minimum use temperature | °C (°F) | -5 (22) |

Typical Foam Properties

As with any foam, the properties of TF3, (or 6), depend on the performance characteristics of foam equipment and the operating conditions. When tested in accordance with UK Def 42-40 TF3, (or 6), exhibits the following properties:

| | |
|---------------------------|-------|
| Expansion ratio | ≥ 7:1 |
| 25% drainage time minutes | ≥ 5 |

Packing Specification

| | Green Plastic Rectangular | Green Plastic Cylindrical |
|-------------------------|---------------------------|---------------------------|
| Capacity | 20 litres | 200 litres |
| Filled weight (kg) | 23 | 233 |
| Nominal dimensions (mm) | 300 L x 250 D x 390 H | 580 DIA x 922 H |

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