



# Fomtec® ENVIRO MIL

## FOMTEC ENVIRO MIL

Fomtec Enviro MIL is a novel fluorine-free firefighting foam concentrate that has no intentionally added PFAS (fluorinated surfactants and polymers). Fomtec Enviro MIL is designed to be a high-performance replacement for AFFF foam concentrates in the ARFF mission as well as general firefighting for land-based military applications.

- Compliant with MIL-PRF-32725(2)
- High-performance foam concentrate for Aircraft Rescue and Fire Fighting (ARFF)
- Low viscosity
- Dry Chemical Powder compatible
- Tested according to FM protocol for use with Viking Grate nozzle systems



## DESCRIPTION

Fomtec Enviro MIL enables rapid control extinguishment and a stable slow draining foam blanket preventing reflash. The testing according to MIL-PRF-32725(2) verified performance exceeding the requirements for extinguishment and burnback on both jet fuel and gasoline.

Fomtec Enviro MIL is especially suited whenever a low viscosity is desired.

## APPLICATION

Fomtec Enviro MIL is designed to be a high-performance fluorine-free foam for land-based Aircraft Rescue and Fire Fighting (ARFF) and general firefighting of hydrocarbon fuel fires such as aviation fuel, gasoline, and diesel.

Suitable for mobile firefighting by use of aspirating as well as non-aspirating foam discharge devices such as foam branch-pipes and monitors, where application rates and technique can be adjusted to the specifics of each incident. Also suitable for fixed systems, designed for use with the product based on recommended minimum application rates, application duration, and discharge devices.

It is compatible with all dry chemical powders and can be used in powder/foam twin agent systems.

The product is designed for use with freshwater.

Fomtec MIL is designed to be used with freshwater however testing with saltwater by NRL showed fire performance that met and exceeded the pass criteria of MIL-PRF-32725(2).

## FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to MIL-PRF-32725 (2). The use depends on the type of application and equipment. The use of the product should follow operational and design guidelines. The foaming properties depend on the equipment used and other variables such as water and ambient temperatures. Average expansion 8:1, average drain time 8:00 minutes using UNI 86 test nozzle. During qualification testing with Mil-Spec nozzle, the average expansion was > 7:1 with a drainage time of > 11 minutes.

## EQUIPMENT

Fomtec Enviro MIL can easily be proportioned at the correct dilution using conventional proportioning equipment.

## TECHNICAL DATA

|                                 |                  |
|---------------------------------|------------------|
| Appearance                      | Clear liquid     |
| Specific gravity at 20°C (70°F) | 1.08 ± 0.01 g/ml |
| Viscosity 20°C                  | < 30 mPas        |
| pH                              | 6.5 – 9.0        |
| Surface Tension                 | < 25 mN/m        |
| Freezing point                  | 1.7°C (35°F)     |

## COMPATIBILITY

Fomtec Enviro MIL can be used together with foam-compatible powders and other expanded foams. Fomtec Enviro MIL concentrate should not be mixed with other foam concentrates.

For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

## ENVIRONMENTAL

Fomtec Enviro MIL is formulated using raw materials specially selected for their fire performance and environmental profile. The product contains no intentionally added fluorinated surfactants, polymers or other organohalogens. Fomtec Enviro MIL is readily biodegradable and conforms to the PFAS requirements of MIL-PRF-32725(2). The handling of spills of concentrate or foam solutions should however be undertaken according to local regulations. Normally, sewage systems can dispose of foam solution based on this type of foam concentrate, but local sewage operators should be consulted. Full details will be found in the Material Safety Datasheet (MSDS). For more detailed information please consult Fomtec Technical Advices FTA 40.

## STORAGE / SHELF LIFE

Stored in original unbroken packaging, the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will depend on storage temperatures and conditions.

For storage recommendations and material compatibility please refer to our Fomtec Technical Advices FTA 10 addressing the topic.

## INTERNATIONAL APPROVALS

- QPL listed to MIL-PRF-32725(2)
- ULI62 approved

## INSPECTION/TESTING/ MAINTENANCE

The foam concentrate should be tested annually. The testing should be made by a suitable laboratory for analysis of foam concentrates and should measure: pH, specific gravity, expansion, drainage time. Storage containers should be inspected and reevaluated for the suitability of the storage location in regard to temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

## PACKAGING

We supply this product in various pack sizes and can supply in bulk on special request.



| Volume per piece | Packaging       | Part no    | Approx. shipping weight* | Dimensions (mm) L x W x H            |
|------------------|-----------------|------------|--------------------------|--------------------------------------|
| 25 ltr           | Can             | 11-6800-01 | 28,2 kg (62.4 lbs)       | 295 x 260 x 441 (12 x 10 x 17 in)    |
| 200 ltr          | Drum            | 11-6800-02 | 224,5 kg (497 lbs)       | 581 x 581 x 935 (23 x 23 x 37 in)    |
| 1000 ltr         | Container       | 11-6800-04 | 1140 kg (2524 lbs)       | 1200 x 1000 x 1150 (47 x 39 x 45 in) |
| 5 US gal.        | Can             | 11-6800-00 | 21,6 kg (47.8 lbs)       | 295 x 260 x 376 (12 x 10 x 15 in)    |
| 55 US gal.       | Drum            | 11-6800-03 | 233 kg (516 lbs)         | 581 x 581 x 935 (23 x 23 x 37 in)    |
| 265 US gal.      | Container       | 11-6800-05 | 1143 kg (2531 lbs)       | 1200 x 1000 x 1150 (47 x 39 x 45 in) |
| Bulk             | Special request | 11-6800-XX |                          |                                      |

\* including packaging.