FOMTEC® ENVIRO FORCE
Foam Concentrate



Fomtec©
ENVIRO FORCE



FOMTEC ENVIRO FORCE
Fomtec Enviro FORCE is a novel fluorine-free firefighting foam with no intentionally added PFAS. Fomtec Enviro FORCE 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.

- MIL-PRF-32725(2) QPL
- High-performance foam concentrate for Aircraft Rescue and Fire Fighting (ARFF)
- Low viscosity
- Dry Chemical Powder compatible
- UL 162 Listed topside and water foam sprinkler
- GREENSCREEN CERTIFIED

Fomtec® is a trademark of Dafo Fomtec AB

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DESCRIPTION

Fomtec Enviro FORCE enables rapid control extinguishment and a stable slow draining foam banket 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 FORCE is especially suited whenever a low viscosity is desired.

APPLICATION

Fomtec Enviro FORCE 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. It should be used at 3% (3 parts concentrate in 97 parts water) 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 including non aspirated and aspirated sprinklers. It is compatible with all dry chemical powders and can be used in powder/foam twin agent systems.

Fomtec Enviro FORCE is designed to be used with freshwater within the limitations given by the MIL-PRF-32725(2) standard but testeing with saltwater by NRL showed fire performance that met and exceeded the pass criteria of MIL-PRF-32725(2).

Fomtec Enviro Force is UL listed for use with both fresh and saltwater with topside devices, aspirated- and non aspirated sprinklers. It is also certified to ICAO Level B

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 > 9 minutes.

EQUIPMENT

Fomtec Enviro FORCE 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
UL listed lowest use temperature	1.7°C (35°F)

Actual lowest use temperature is: - 7°C

COMPATIBILITY

Fomtec Enviro FORCE can be used together with foam-compatible powders and other expanded foams. Fomtec Enviro FORCE 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 FORCE 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 FORCE 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.
GREENSCREEN certified SILVER, Certificate number: 20261014
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.

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INTERNATIONAL APPROVALS

- MIL-PRF-32725(2), QPL
- ICAO Level B
- UL 162 Listed for both fresh- and seawater

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 loca-tion 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	11-6900-01	28,2 kg (62.4 lbs)	295 x 260 x 441 (12 x 10 x 17 in)
200 ltr	Drum	11-6900-02	224,5 kg (497 lbs)	581 x 581 x 935 (23 x 23 x 37 in)
1000 ltr	Container	11-6900-04	1140 kg (2524 lbs)	1200 x 1000 x 1150 (47 x 39 x 45 in)
5 US gal.	Can	11-6900-00	21,6 kg (47.8 lbs)	295 x 260 x 376 (12 x 10 x 15 in)
55 US gal.	Drum	11-6900-03	233 kg (516 lbs)	581 x 581 x 935 (23 x 23 x 37 in)
265 US gal.	Container	11-6900-05	1143 kg (2531 lbs)	1200 x 1000 x 1150 (47 x 39 x 45 in)
Bulk	Special request	11-6900-XX		

** including packaging.*

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