



Fomtec® Enviro 3% ICAO

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Fomtec Enviro 3% ICAO is a fluorine free firefighting foam (FFF) concentrate that has no intentionally added PFAS (fluorinated surfactants and polymers).

The unique formulation of Fomtec Enviro 3% ICAO enables the foam to rapidly cover burning surfaces and control of the fire. As a result, it is effective against hydrocarbon fires and with the presence of special polymers it is also effective against polar solvents.

- Fluorine Free Foam
- 100% Biodegradable
- Approved ICAO Level B 2013
- Excellent Firefighting Capabilities



DESCRIPTION

Fomtec Enviro 3% ICAO should be used at 3% solution in potable water on hydrocarbon liquids.

APPLICATION

Fomtec Enviro 3% ICAO is intended for use on class B hydrocarbon fuels, and has specifically been tested against ICAO 2013 level B standard for use in airport firefighting involving fuel such as Jet A-1 or aviation Kerosene. It is developed for use in Aviation Rescue Fire Fighting Vehicles (ARFFV), Rapid Intervention Vehicles (RIV) and airport crash trucks where fast extinguishment is essential for saving life. Fomtec Enviro 3% ICAO can be used as low and medium and high expansion foam. Fomtec Enviro 3% ICAO is also effective against class A fires such as wood, paper, textiles etc.

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 7:1, average ¼ drainage time 25:00 minutes using UNI 86 test nozzle.

EQUIPMENT

Fomtec Enviro 3% ICAO can easily be proportioned at the correct dilution using conventional proportioning equipment. The equipment should be designed to the foam type. Fomtec Enviro 3% ICAO should be used with aspirating foam discharge devices giving an expansion of more than 7:1 for optimal performance.

COMPATIBILITY

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

ENVIRONMENTAL

Fomtec Enviro 3% ICAO is formulated using raw materials specially selected for their fire performance and their environmental profile. The product is totally free from fluorinated surfactants and polymers and other organohalogens, and therefore it does not contain any PFAS. Fomtec Enviro 3% ICAO is 100% biodegradable. The handling of spills of concentrate or foam solutions should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted.

TYPICAL DATA

Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,00 - 1.02 g/ml
Viscosity at 20°C	≤ 2000 mPas
pH	6,5 -8,5
Freezing point	0°C
Recommended storage temperature	0 - 55°C
Suspended sediment (v/v)	Less than 0,2%
Surface tension	≤ 27,0 dynes/cm

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 be dependent on storage temperatures and conditions. For storage recommendations and material compatibility please refer to our Fomtec Technical Advices FTA 10 addressing the topic.

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 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

Litres per piece	Packaging	Part no
25 litres	Can	12-3360-01
200 litres	Drum	12-3360-02
1000 litres	Container	12-3360-04
Bulk	Special request	

INTERNATIONAL APPROVALS

- ICAO level B

ENVIRO BY FOMTEC

The Fomtec Enviro range comprises an extensive range of non-PFAS based foams suitable for use Emergency Response missions and System applications. Enviro foam concentrates are available for class A, class B fire hazards and products are available for low, medium, and high expansion discharge devices.

enviro
by fomtec



VISCOSITY DATA - FLOW CURVES

The viscosity flow curves are determined by Brookfield RST rheometer from low to high shear rates. The viscosity curves below are determined by calculating the average value of at least 8 different measurements and add a safety margin of three standard deviations to the average. The viscosity curves are determined for 20°C and 5°C. In the table below the kinematic viscosity (mm²/s) is calculated as dynamic viscosity (mPa·s) divided by the specific gravity of the concentrate.

Shear Rate (s ⁻¹)	Dynamic Viscosity (mPa·s) 20°C	Dynamic Viscosity (mPa·s) 5°C	Kinematic Viscosity (mm ² /s) 20°C	Kinematic Viscosity (mm ² /s) 5°C
1.0	18151	18905	17708	18444
5.0	4358	4403	4251	4296
10.0	2366	2407	2308	2348
25.0	1077	1116	1050	1089
50.0	600	638	585	622
100.0	347	377	338	367
200.0	215	230	210	224
375.0	132	151	129	147
500.0	108	124	105	121
750.0	83	98	81	96
1000.0	112	87	109	224
1500.0	55	68	54	147
2000.0	48	58	46	121
2500.0	47	54	45	96

