FOMTEC® AFFF 1% F
Foam Concentrate

Fomtec©
AFFF 1% F

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Fomtec AFFF 1% F is an aqueous film forming foam concentrate (AFFF) consisting of a blend of fluorocarbon-, hydrocarbon surfactants and various solvents and stabilisers. Only C6 Pure fluorosurfactants are used in Fomtec AFFF-formulations. Fomtec AFFF 1% F utilises the unique film forming effect to cut off oxygen supply to the fire and the oleophobic properties of the foam enables a stable foam blanket to suppress reignition of the fire.

- Short chain C6 Pure fluorochemistry
- Environmentally documented according to HOCNF
- Approved to EN 1568, IMO 1312, MED, ICAO level B
- Suitable for Class A and B fires
- Low and medium expansion foam

Fomtec® is a trademark of Dafo Fomtec AB

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DESCRIPTION

Fomtec AFFF 1% F should be used at 1% proportioning (1 part concentrate and 99 parts of water). May be used with all water types. Fomtec AFFF 1% F can be stored as premix when blended with fresh water.
For use on Class A type fires, induction ratio of 0,3% to 0,5% is recommended depending on application and discharge device.

APPLICATION

Fomtec AFFF 1% F is suited whenever a low proportioning ratio and a low freezing point is required.
Fomtec AFFF 1% F is tested according to EN 1568 for use on class B hydrocarbon fuel fires such as oil, diesel, gasoline and aviation fuels. Fomtec AFFF 1% F can be used with all kinds of low and medium expansion devices.
Fomtec AFFF 1% F is effective against class A fires such as wood, paper, textiles etc.
Tested and approved according to International Civil Organisation (ICAO) level B for use in aircraft rescue and firefighting (ARFF) applications.
Fomtec AFFF 1% F is also certified for marine applications according to IMO Circ. 1312 and Marine Equipment Directive (MED).

Typical applications include high risk installations such as:
- Storage tanks, process areas and loading racks
- Waste and recycling industry
- Marine vessels and offshore platforms
- Airports and ARFF-vehicles

Suitable for mobile firefighting by use of aspirating foam discharge devices such as foam branchpipes and monitors, where application rates and technique can be adjusted to the specifics of each incident. If the product is used in a fixed system the design should be based on recommended minimum application rates, application duration and type of discharge devices.

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The design parameters depend on type of system and application. The use of the product should follow design guidelines. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 7:1, average 25% drainage time 2:30 minutes using UNI 86 test nozzle according to EN 1568-3.

EQUIPMENT

Fomtec AFFF 1% F can easily be proportioned at the correct ratio using conventional proportioning equipment. The equipment should be designed to the foam type.

TYPICAL DATA	
Appearance	Pale yellow liquid
Specific gravity at 20°C	1,035 ± 0,010 g/ml
Viscosity at 20°C spindle #1, 60 rpm	≤ 15 mPa·s
pH	6,5 – 8,5
Freezing point	-15°C
Recommended storage temperature	-14°C - 55°C
Suspended sediment (v/v)	< 0,1%

Fomtec AFFF 1% F is suitable for use in Type II (gentle application) and Type III (direct application) discharge devices as well as sprinklers according to EN 13565-2. It can be used in low and medium expansion applications with all conventional aspirating and non-aspirating discharge devices.
Fomtec AFFF 1% F is also suitable for use in CAF-systems.

COMPATIBILITY

Fomtec AFFF 1% F -20 can be used together with foam compatible powders and other expanded foams.
It is suited for all water types.
For mixing with other concentrates, contact Fomtec for advise and guidance. For material compatibility please refer to our Fomtec Technical Advices FTA 20 addressing the topic.

ENVIRONMENTAL

Fomtec AFFF 1% F is formulated using raw materials specially selected for their fire performance and their environmental profile. All raw materials are registered in European REACH-database. Fomtec AFFF 1% F is also registered in the NEMS database and each individual component is fully tested and documented to HOCNF regulations required for the NEMS registration.
Fomtec AFFF 1% F formulations contains PFAS using C6 fluorosurfactants and may be used in accordance with legislation valid for the user for the specific derogation. For the latest update on PFAS legislation in EU, check ECHA´s website.
Our filmforming (AFFF 1% F) products comply with current EU regulation 2019/ 1021 and PoP´s Stockholm convention and US EPA Stewardship as of the revision date of this document.
In case of an analysis with current available analytical methods, the result of PFOA and PFOS will be below the detection level.
More details can be found in the Material Safety Datasheet (MSDS).
The disposal of concentrate and premix may include; capture of release / discharge, waste handling should be made in accordance with local regulations. For total destruction/ mineralization of PFAS incineration at 1100°C is recommended. For more detailed information please consult our Fomtec Technical Advices FTA 40.

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INSPECTION/TESTING/MAINTENANCE

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

All foam concentrates should be tested annually. Testing should be carried out by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568, IMO Circ. 1312 or ICAO.
Storage containers should be inspected and reevaluated for the suitability of the storage location regarding temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (mm) L x W x H
25 ltr	Can	10-1008-01	27,1 kg	295 x 260 x441
200 ltr	Drum	10-1008-02	215,5 kg	581x 581 x 935
1000 ltr	Container	10-1008-04	1095 kg	1200 x1000 x1150
5 US gal.	Can	10-1008-XX	21,6 kg	295 x 260 x 441
55 US gal.	Drum	10-1008-XX	224,1 kg	581 x 581 x 935
265 US gal.	Container	10-1008-XX	1100 kg	1200 x1000 x1150
Bulk	Special request	10-1008-XX		

** including packaging.*

PACKAGING

We supply this product in 25 litre or 5 US gallon cans, 200 litre or 55 US gallon drums, and 1000 litre or 265 US gallon IBC containers. Larger bulk supply is available on special request.

INTERNATIONAL APPROVALS

- EN 1568 part 3
  Class IB Fresh water/Class IB Sea water
- ICAO Level B
- MED Module B
- MED Module D

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