# DYAYAN PROTECTION

DRY CHEMICAL FIRE EXTINGUSHING POWDERS AND FOAM COMPOUNDS

ISO 9001:2015

## SYNTHETIC FOAM CONCENTRATE
## DIMILEX® AFFF 6 % F-15

### Description
DimiLex AFFF 6% is highly effective synthetic aqueous film forming oam concentrate (AFFF) foam based on surface active agents. A combination of surfactants, foam stabilizers and antifreeze compounds fighting non-polar hydrocarbon fires.
The foam forms an aqueous film that rapidly cuts off the oxygen supply and thus knocks down the fire. The film forms a stable blanket that suppresses the release of flammable vapours and cools down the fuel surface extinguishing the fire and preventing reignition.
The low surface tension of the water-foam solution enables the aqueous film to float on top of the liquid surface.

DimiLex AFFF 6% should be used at 6% proportioned solution (6 parts concentrate in 94 parts of water) in fresh, brackish or seawater.

### Properties
DimiLex AFFF 6% is designed for generating low expansion foam and owing to its high foam density long throwing distances are achieved.

### Application
DimiLex AFFF 6% is used with most commonly available low expansion foam equipment and installations for fighting fires of class A + B. Non-aspirating equipment may be used for hydrocarbon fires where the aqueous film is active even without expanded foam.

DimiLex AFFF 6% is especially suited whenever rapid fire knockdown is essential. It is ideal for any area where flammable non water miscible fuels are stored, handled or consumed. It is compatible with dry chemical powders class A, B, C and D and can be used in powder/foam twin agent systems.

DimiLex AFFF 6% is typically used by fire brigades, in the petrochemical and chemical industry, on airports, mines, onshore and offshore, and in locations where large fires have to be safely and reliably extinguished within a very short time.

### Fire Performance & Foaming
The foaming properties depend on equipment used, water and ambient temperatures.
Foaming index ≥ 7:1
25% drainage time ≤ 5.00 minutes.
50 % drainage time ≤ 8.00 minutes.

### Proportioning
DimiLex AFFF 6% can easily be proportioned at the correct dilution using conventional equipment such as:
- Inline inductors.
- Balanced pressure, variable flow proportioning systems.
- Water turbine driven foam proportioners.
- Self inducting branch pipes and nozzles.

### Technical data

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| Appearance Clear Amber Liquid | |
| Specific gravity at 20°C | 1.012 ± 0,02 g/ml |
| Viscosity at 20°C | 6 ± 1 $mm^2/s$ |
| at 0°C | 14 ± 2 $mm^2/s$ |
| at -15°C (lowest usage temperature) | 32 ± 2 $mm^2/s$ |
| pH | 6.5 - 8.5 |
| Freezing point | - 16 °C |
| Suspended sediment (v/v) | Less than 0.2 % |

### Environmental Information:
DimiLex AFFF 6% is formulated using specially selected raw materials, selected for their fire performance and their environmental profile. DimiLex AFFF 6% is biodegradable and low in toxicity. The handling of spill of concentrate or foam solutions shall how ever be made 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 in this respect. This product contains NO PFOS or PFOA. Full details will be found in the Material Safety Datasheet (MSDS).

### Storage/Shelf Life
Stored in original unbroken packaging the product will have a long shelf life. Shelf life minimum 5 years will be found in temperature climates. As with all foams, shelf life depends on storage temperatures and conditions. The recommended storage temperature range of DimiLex AFFF 6% is from -15°C to +45°C.

Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electromagnetic corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of material should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates.

### Packaging
We supply DimiLex AFFF 6% in 20 kg barrels, 25 kg barrels, 200/220 kg drums and in 1000 kg IBC containers. We can supply in other packing depending on customer's requirement.

International approvals: EN 1568-3:2018, ICAO

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