InnoVfoam B.V.

Foam Concentrate AFFF 810 UL

InnoVfoam AFFF 810 UL is an aqueous film forming foam concentrate (AFFF) consisting of fluorocarbon and hydrocarbon surfactants blended with various solvents, preservatives and stabilizers.
The foam forms an aqueous film that rapidly cuts off the oxygen supply and knocks down the fire. The expanded foam, from which the film is drained, forms a stable blanket that suppresses the release of flammable vapors 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, although heavier than the burning liquid, to float on top of the liquid surface. InnoVfoam AFFF 810 UL should be used at 1% proportioned solution (1 part concentrate in 99 parts of water) in brackish, fresh or sea water. It may also be stored as a premix solution in fresh water.

APPLICATION

InnoVfoam AFFF 810 UL is intended for use on class B hydrocarbon fuel fires such as oil, diesel and aviation fuels. It can be used with both aspirating and non-aspirating discharge devices. InnoVfoam AFFF 810 UL is especially suited whenever rapid fire knock-down is essential. It is compatible with all dry chemical powders and can be used in powder/foam twin agent systems.

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 02:30 minutes using UNI 86 test nozzle.

PROPORTIONING

InnoVfoam AFFF 810 UL can easily be proportioned at the correct dilution using conventional equipment such as:

- Inline inductors
- Balanced pressure, variable flow proportioning systems
- Bladder tanks
- Around the pump proportioning systems
- Water turbine driven foam proportioners
- Self-inducting branch pipes and nozzles

The equipment should be designed to the foam type.

InnoVfoam B.V.

Foam Concentrate AFFF 810 UL

TECHNICAL DATA

Appearance	Clear yellowish Liquid
Specific gravity @ 20°C	1,05 +/- 0.01 g/ml
Viscosity @ 20°C	≤ 20 mPas
pH	7.3—8,3
Freezing point	-38°C
Recommended storage temperature	-38°C— 55°C
UL-listed storage temperature*	-18—49°C
Suspended sediment (v/v)	Less than 0,2 %
Surface tension	≤ 18,0 dynes/cm

**This product is tested according to UL-standard and has passed the specific circumstances in the test.*

ENVIRONMENTAL IMPACT

This product is formulated using raw materials specially selected for their fire performance and their environmental profile. InnoVfoam AFFF 810 UL is biodegradable. The handling of spills of concentrate or foam solution 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 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 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. If the product is frozen during storage or transport, thawing will render the product completely usable. Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electrochemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps, and tanks employed in the storage of foam concentrates. We recommend following our guidelines for storage and handling ensuring favorable storage conditions.

PACKAGING

We supply this product in 25 liter cans and 200 liter drums. We can also ship in 1000 liter containers or in bulk.

INTERNATIONAL APPROVALS

UL standard 162 (7th Edition) - ULC listed
EN 1568, part 3 - ICAO Level B