

CLASS A FOAM

(0.1% - 1.0%)

Technical Data Sheet # SFFC 150

DESCRIPTION

SHIELD Class A Foam is an non-corrosive, non-toxic, biodegradable Class A firefighting foam concentrate that consists of various hydrocarbon surfactant, solvents, stabilizers, anticorrosion materials etc. This concentrate is highly effective with deep seated class fires such as tire, wood, plastic papers, coal room fires, structural fires etc.

This concentrate is suitable to use 0.1 to 1% concentration with fresh water, sea water and brackish water. When mixed with water in the correct proportion, it changes the properties of water, it reduces the surface tension of the water, and produces foam which allows the water to cling to vertical or horizontal surfaces without run off. This allows the water to absorb more heat and provides greater penetration into Class A fuels.

FEATURES

- Reduction of surface tension helps its solution to penetrate easily and thus make it superior wetting and penetrating characteristics.
- Good drain time helps it make solution longer wetting time
- Its solution create blanket over flammable material
- As this agent used as additive with water so it increases water efficiency almost five times
- Suitable for use with either fresh or salt water
- Suitable for used with non-air-aspirating or aspirating hand line nozzles
- Suitable for use with Compressed Air Foam Systems (CAFS)
- Suitable for use on rubber (tires), coal, paper, and many other types of Class A fuels
- Suitable for use through medium expansion nozzles on Class A or contained Class B flammable liquids.
- It solution suppresses the combustibles vapour while cooling the fuel.



Typical Specification @ 20°C:

Product	Class A Foam
Use Concentration	0.1% – 1.0%
Specific Gravity	1.00 – 1.02
pH	7-8
Viscosity	< 20 cSt
Suspended Sediment	None

Surface tension reduction	
Water	65-70 dynes/cm
0.1%	28-30 dynes/cm
1% solution	24.2 dynes/cm
Pour point	Flows at (-)5 degree C

APPLICATIONS

The **SHIELD Class A Foam** is designed for use in fires such as paper, wood, coal plastics etc. and for its special composition it becomes suitable and best choice option for extinguishment for protection and safety. This material is also suitable for class B foam when used with medium and high expansion foam devices. Its application is dependent on many different factors. Which include:

- Type of discharge device
- System operating pressure
- Amount of foam concentrate in the water
- Wetting Agent, 0.1% to 1.0%
- Compressed Air Foam System (CAFS), 1.0

Environmental Impact:

As NAFFCO Class A Foam is prepared with biodegradable, low in toxicity ingredients so it has very minimal effect on environment as well as in human bodies. Its oral and dermal toxicity is well within the range when used in specified concentration. and can be treated in sewage treatment plants.

PERFORMANCE

NAFFCO Class A foam is suitable to use as per NFPA 1150 and can give result that superior to use for selection fires of any materials of class A. Besides this other it can be selected for use any international standard

Foaming properties- Depending upon the selection of equipment of use it gives compatible results with fresh, sea and brackish water without deteriorating properties.

Storage and Handling:

NAFFCO Class A Foam when stored in its original supplied containers (High density polyethylene container) and at recommended storage temperature 0 degree to 50degree C then approximate shelf life is 15-20years.

If the product frozen during use or transportation, then thawing will render its quality again.

Compatibility: This material is compatible with conventional class A and Class B foam liquid concentrate.

Materials of construction: As this product has been formulated non corrosive materials so it has no difficulties to use any material of construction such steel, stainless steel, brass, rubber, aluminium alloys etc.

Packaging: NAFFCO Class A foam is packed in blue color HDPE containers of capacity 20L. But on request it can be packed in containers of user's choice.

Ordering Information:

NAFFCO Class A Foam is available in 20 Liter pails or 200 Liter drums. Other packing as per customer requirements can also be done.

Part No. NAFFCO Class A FOAM - J 20L
Part No. NAFFCO Class A FOAM - D 200L

This information is only a general guideline. The company reserves the right to change any portion of this information without notice.
Terms and conditions of sale apply and are available on request.

NAFFCO

P.O.BOX: 17014, DUBAI, UNITED ARAB EMIRATES. TEL: +971 4 815 1111, FAX: +971 4 815 1222