

FOAM CONCENTRATE

Model AG-HFE 1%

Multiexpansion concentrate

EN 1568
Part 1 & 3



PRODUCT DESCRIPTION

AG-HFE 1% is a synthetic foam concentrate with good wetting properties; specially formulated to obtain foams for fighting "class A" fires (forest, urban, structural, etc.) that can also be used effectively in combat for "Class B" fires (hydrocarbons). It can be used with low, medium and high expansion foam equipment, with not aspirating equipment (water spray nozzles, sprinklers, etc.) and CAFS (Compressed air systems).

When used in "Class A" fires, foam adheres well to the material and the fluid drained from the foam, with good wetting properties, penetrates into the substrate preventing a possible reignition.

When used to fight class B fires can be applied with low and medium expansion nozzles. In low expansion, it is advisable to use gentle application. It is particularly interesting the use of AG-HFE 1% with compressed air foam systems (CAFS) in class A and class B fires, where its high efficiency reduces the water consumption.

AG-HFE 1% nominal proportioning rate is 0.5% in fresh or sea water. This rate can be varied between 0.2 and 1.0%, depending on the type of foam desired. High concentrations (1%) are recommended for high expansion foams and when slow drainage times are desired. Having such a low viscosity, the concentrate dissolves very quickly in water, nearly without agitation.

AG-HFE 1% is highly biodegradable.

TECHNICAL DATA

Model	AG-HFE 1%
Use concentration	0.5% / 1%
Fire classes	A and B
Specific gravity (at 20°C)	1,03 ± 0,03 g / ml
PH (at 20°C)	7,5 - 8,0
Expansion ratio	Low expansion: 8.0 / 8.5 Medium expansion: 80 / 110
Viscosity (at 20°C)	20.0 mPa/s
25% Draining time	Low expansion: 4:30 / 7:00 Medium expansion: 8:00 / 12:00
Storage temperature	-10°C to +50°C (14°F to 122°F)
Freezing point (solidification temperature)	-10°C (14°F)

APPLICATIONS

This foam concentrate will provide protection for a wide range of hazardous areas such as:

- Crash Fire Rescue.
- Defense Facilities.
- Storage tanks.
- Truck/Rail loading or unloading facilities.
- Processing/Storage facilities.
- Docks/Marine tankers.
- Flammable liquid containment areas.
- Liquid gas installation.

FEATURES

This foam concentrate is:

- Suitable for use with non-aspirating equipment such as fog nozzles and water spray systems.
- Suitable for use with either fresh or salt water.
- Suitable for use with deluge or closed head foam water sprinkler systems.

DISCHARGE DEVICES

This foam concentrate is suitable for use with the following discharge devices:

- Foam Chambers.
- Non air-aspirating sprinkler heads or spray nozzles.
- Standard water fog nozzles for handlines and monitors.
- Foam Makers for use with either Floating Roof Storage tanks or Dike/Bund protection systems.
- High back pressure foam makers for subsurface base injection system.

PROPORTIONING

This foam concentrate is designed for use with the following types of proportioning equipment:

- Fixed or portable in-line eductors.
- In-line balanced pressure and pump pressure proportioning skid.
- Bladder tank proportioning systems.
- Handline, air-aspirating nozzles with fixed eductor pickup tube.
- Fire pump proportioners.

STORAGE AND MAINTENANCE

AG-HFE 1% may be stored in its shipping container without change in its original physical or chemical characteristics. Shelf life is expected to be 20 years or more when stored at recommended temperatures and in original containers. It does not show significant sedimentation or precipitation in storage or after temperature cycling.

The concentrate must be stored at temperatures between -10°C and +50°C.

Synthetic foam concentrates should only be stored in stainless steel (Type 304L or 316), reinforced fiberglass polyester with a vinyl ester resin internal layer coating or plastic containers.

The physical properties and specifications of the foam concentrate should be tested after 5 years from the production date, and thereafter retested each year.

ENVIRONMENTAL IMPACT

This foam concentrate is biodegradable.

TOXICITY

This foam concentrate is low in toxicity to humans or animals and can be treated in sewage treatment plants.

ORDERING INFORMATION

Specify:

Model	
Concentration	
Homologations	
Quantity	AG-HFE 1% – JA 20 L Jerry can AG-HFE 1% – JB 25 L Jerry can AG-HFE 1% – D 200 L Drum AG-HFE 1% – IBC 1000 L IBC

AG FIRE SPRINKLER

AG Fire Sprinkler offers a wide selection of components. Then a list of products is presented by AG Fire Sprinkler, we can offer all these components, made with precision to protect people, anywhere, anytime.

- Sprinklers
 - Basic
 - Extended Coverage
 - Storage
 - Dry
 - Accessories
- System Valves
 - Wet
 - Dry
 - Preaction Equipment
 - Accessories
- Spray System Open Nozzles
 - High Velocity Nozzles
 - Medium Velocity Nozzles
 - Window Nozzles
 - Hydrosshield Nozzles
 - Mushroom Type Nozzles
- Foam equipment
 - Bladder Tanks
 - Proportioners for Bladder Tanks
 - Foam Discharge Equipment
 - Foam Concentrates
- Alarm Check Valves for Water Spray and Foam
 - Clapper Deluge Valves
 - Diaphragm Deluge Valves
- Monitors
 - Manual Monitors
 - Remote Monitors
 - Monitor Towers
 - Monitors Trolleys
- Valves
 - Butterfly Valves
 - Gate Valves
 - Check Valves
 - Pressure Control Valves
 - Test and Drain
 - Hose, Hydrant and Fire Connection Valves
 - Fire Department Connections

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.
