

FOAM CONCENTRATE

Model AG-AFFF-AR 3x3% UL

Foam concentrate AFFF-AR 3x3% UL listed



EN 1568
Parts 3 & 4



PRODUCT DESCRIPTION

AG-AFFF-AR 3x3% UL is a compound for extinction of hydrocarbon and polar solvents fires.

This concentrate has a pseudoplastic behaviour. It contains fluorinated and hydrocarbon surfactants to allow a good formation of an aqueous film on the surface of most hydrocarbon fuels and polar solvents, suppressing vapour leaks and preventing its contact with the oxygen and providing an excellent sealing on hot surfaces. Its formulation allows a great oil repellence, fluidity and burnback resistance.

Dilution rate is 3% in fresh or sea water for extinguishing hydrocarbon fires and 3% for polar solvent (alcohols, ketones, ethers, esters, amines, etc.) fires or when medium expansion is required.

It performs effectively on fresh or sea water and it may be proportioned with standard equipment (in-line inductors, bladder tanks, pumps, balanced pressure systems, etc.) and special purpose ones for AFFF agents (e.g. Hydrofoam nozzles).

On hydrocarbon and polar solvent fires it can be applied also with non-aspirating devices (water spray nozzles and standard sprinklers). It can be used fighting fires or covering spillages of chemicals to avoid the emission of toxic, harmful, flammable, etc., vapours, even acids. The foam has a very good resistance to all kind of chemicals.

AG-AFFF-AR 3x3% UL is highly biodegradable and it is manufactured according to "C6 fluorocompounds" fulfilling the 2010/2015 EPA PFOA Stewardship Program.

TECHNICAL DATA

| | |
|----------------------------------------------------|--------------------------------------------------------------|
| Model | AG-AFFF-AR 3x3% UL |
| Use concentration | 3% for hydrocarbon fires 3% for polar solvents |
| Fire classes | A & B |
| Specific gravity (at 20°C) | 1,02 ± 0,02 g/ml |
| PH (at 20°C) | 6,5 – 7,5 |
| Expansion ratio | Low expansion: 8,1 for hydrocarbon 8,1 for polar solvents |
| Viscosity (at 20°C) | 80 mPa/s |
| 25% drainage time | 9:30 for hydrocarbon & polar solvents |
| Storage temperature | 0°C to +50°C (32°F to 122°F) |
| Freezing point (solidification temperature) | <0°C (<32°F) |

APPLICATIONS

This foam concentrate is a perfect tool to fight fires on:

- Storage tanks.
- Bund
- Process areas
- Loading racks
- Power stations
- Marine vessels
- Onshore or offshore terminals

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 inductors.
- In-line balanced pressure and pump pressure proportioning skid.
- Bladder tank proportioning systems.
- Handline, air-aspirating nozzles with fixed inductor pickup tube.
- Fire pump inductors.

STORAGE AND MAINTENANCE

AG-AFFF-AR 3x3% UL 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 0°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. Avoid permanent contact with carbon steel, iron, copper alloys, aluminium, etc. Do not mix with other foam concentrates without a previous verification of compatibility.

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.

CAUTIONS

Foams should neither be used in contact with electrical equipment nor with chemical products that can react with water. It is recommended to avoid the contact of the foam concentrate with the skin. In case of eye splashes wash with plenty of water. In case of ingestion do not induce vomit, drink water and take medical advice.

ORDERING INFORMATION

Specify:

| | |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | |
| Concentration | |
| Homologations | |
| Quantity | AG-AFFF-AR 3x3% UL – JA 20 L Jerry can AG-AFFF-AR 3x3% UL – JB 25 L Jerry can AG-AFFF-AR 3x3% UL – D 200 L Drum AG-AFFF-AR 3x3% UL – 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.
