

## METEOR X 2% High-Expansion Foam Concentrate

### Description

METEOR X 2% High-Expansion Foam Concentrate is a synthetic based formulation comprised of hydrocarbon surfactants, solvents, and stabilizers for use with medium and high-expansion foam generators. It is transported and stored as a concentrate to provide ease of use and considerable savings in weight and volume.

METEOR X 2% High-Expansion Foam Concentrate can be used to produce foam with expansion ratios ranging from 50:1 to 1000:1 depending upon the type of generator and its operating pressure. It must be proportioned only with fresh water. When used with High-Expansion Generators, the recommended proportioning is at 2% (2 L METEOR X concentrate with 98 L water). When used with medium-expansion foam nozzles, it is typically proportioned at a 2% concentration.

#### Typical Physiochemical Properties at 77 °F (25 °C)

Appearance	Blue liquid
Density	1.020 g/ml ± 0.010
pH	6.0 – 7.0
Refractive Index	1.350 ± 0.015
Viscosity	185 ± 25 cPs

### Application

METEOR X 2% High-Expansion Foam Concentrate is a tremendously flexible firefighting agent, used in fighting Class A, Class B, and LNG fires both indoors and outdoors. It is used only with air aspirating foam discharge devices except when used as a wetting agent on Class A fuels.

METEOR X 2% High-Expansion Foam Concentrate, when used with high-expansion generators, is capable of totally flooding large rooms and enclosures allowing it to effectively suppress horizontal and vertical (three-dimensional) fires. High-expansion foam is also effective in reducing vapor concentrations downwind from unignited LNG and other hazardous low boiling point gaseous products such as ammonia spills.

When used with medium-expansion foam equipment, METEOR X 2% High-Expansion Foam Concentrate forms a foam blanket that prevents the release of fuel vapor and also provides additional cooling due to the higher water content. Medium-expansion foam has benefits in outdoor applications because the foam is less affected by wind conditions.



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### Performance

**Foaming Properties** – The performance of METEOR X 2% High-Expansion Foam Concentrate varies depending upon the performance characteristics of the equipment. Expansion ratios through high-expansion generators are typically between 200:1 and 1000:1. For this reason, it is important for the correct design of a high-expansion system that the METEOR X 2% High-Expansion Foam Concentrate be specifically listed with the foam generators. Refer to the performance table listing expansion ratios of HIEX high-expansion generators used in conjunction with METEOR X 2% Foam Concentrate (see HIEX Generator Data Sheet, Form FDS-2018026). Medium-expansion foam generators typically deliver expansion ratios between 50:1 and 200:1.

**Proportioning** – METEOR X 2% High-Expansion Foam Concentrate can be proportioned easily at the correct dilution using most conventional proportioning equipment such as:

- Balanced pressure bladder tank type proportioners
- Balanced pressure and in-line balanced pressure pump proportioning equipment
- Fixed or portable in-line venturi (eductor) type proportioners
- Around the pump type proportioners

The minimum and maximum usable temperatures for METEOR X 2% High-Expansion Foam Concentrate in this equipment is 1.7 °C to 49.0 °C respectively.

**Storage and Shelf Life** – When stored in the packaging supplied (polyethylene drums or totes) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of METEOR X 2% High-Expansion Foam Concentrate is approximately 20 to 25 years. If the product is frozen during storage or transportation, thawing renders the product completely usable. Mixing after freeze thaw cycling is recommended.

## Performance (Continued)

**Compatibility** – There are no specifications or standards that address the subject of compatibility of different manufacturers brands of multiple expansion foam concentrates. In an emergency or if the manufacturer has supporting test data to substantiate that the mixture meets the same requirements as the individual component concentrates, they may be mixed together in the same storage vessel.

Different types of foam concentrates, that is, multiple expansion and protein base, should not be mixed under any circumstances. METEOR X 2% High-Expansion Foam Concentrate should not be mixed for use with foam concentrates.

**Inspection** – As with any fire suppressing agent, METEOR X 2% High-Expansion Foam Concentrate, whether in the concentrate or pre-mixed form, should be inspected periodically. NFPA 11, Standard for Low-, Medium-, and High-Expansion Foam Systems, requires that foam concentrate samples be submitted to the manufacturer or other qualified laboratory for quality condition testing at least annually. Contact Johnson Controls for further information on annual inspection.

## Approvals and Listings

METEOR X 2% High-Expansion Foam Concentrate is Underwriters Laboratories (UL) Listed with various foam hardware devices and meets requirements according to EN1568-2.

### FM Approvals – FM 5130

This concentrate is only FM Approved in conjunction with the specific proportioning equipment and discharge devices as shown in the Approval Guide ([www.ApprovalGuide.com](http://www.ApprovalGuide.com)).



## Ordering Information

METEOR X 2% High-Expansion Foam Concentrate is available in drums or totes.

<u>Part Number</u>	<u>Size</u>	<u>Shipping Weight</u>	<u>Cube</u>
438824	208 L Drum	261.7 kg	0.3208 m <sup>3</sup>
438825	1003 L Tote Container	1118.0 kg	1.4200 m <sup>3</sup>

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