

Specifications



Description:

FlameOut+ Fire Suppressor is an extremely effective fire suppressing agent for use on Class A and B fires. It is a 100% Organic/ Non-toxic (No PFOA, PFOS, PFAS), Non-corrosive/HALON replacement. Registered with the Environmental Protection Agency and the U.S. Department of Forestry.

FlameOut has been specifically designed to capture and combine the best qualities of a wetting agent and a foam. These qualities include:

- Exceptional for use on Class B fires involving gasoline, kerosene and diesel
- Fast cooling effect
- Excellent vapor suppression characteristics
- Penetrating capabilities which help the product act as a retardant
- Low toxicity
- Excellent handling characteristics
- Ease of application with no special equipment required

FlameOut's patented formula works to extinguish a fire and prevent re-ignition by eliminating each of the three sides of the fire triangle: Heat, Oxygen, and Fuel. First, the wetting power of FlameOut rapidly cools and penetrates (Removing Heat). Second, FlameOut works to encapsulate and blanket the oxygen at the surface of the fire (Removing Oxygen). Last, FlameOut prevents re-ignition by breaking the hydrocarbon strings and suppressing flammable vapor helping to render the fuel source inert (Removing Fuel).



FlameOut+ Concentrate Product Specification	
Specification	Description
Chemical	Aqueous Synthetic Bio-surfactant. Wetting Agent/Foam
Approvals	NFPA18-2006, USFS 5100-307 and EN 1568-3
pH	8.5 to 9.5. Dilutions with water are pH neutral
Solubility	100%. Complete in water and remains in suspension
Dilution for Use	Class A Fires: .1-1% Class B/D/K Fires: 3%
Color	Pale yellow with fresh scent
Biodegradability	Complete within 21 days
Flammability	Not combustible
Specific Gravity	1.01@25-C
Toxicity	Low
Corrosivity	Low

Application:

FlameOut+ concentrate is intended for use on Class A and Class B polar and nonpolar fuel fires. It can be used with both aspirating and non-aspirating discharge devices due to the low energy required to make it foam.

The excellent wetting characteristics make it useful in combating Class A fires. It can be used with dry chemical suppressing agents without the need to be concerned with the order of application, which allows for greater fire protection capability and flexibility.

Fire Performance:

Reports describing this fire performance are available on request as standards and specifications, such as those cited above, are continuously being upgraded and changed.

Foaming Properties:

When used with fresh or salt water, at the correct dilution, with most conventional foam making equipment, the expansion ratio will vary depending on the performance characteristics of the equipment. Aspirating discharge devices produce expansion ratios from 6:1 to 10:1 depending primarily on type of aspirating device and flow rate. Non-aspirating devices such as handline water fog/ stream nozzles or standard sprinkler heads produce expansion ratios of 2:1 to 6:1.

Proportioning:

FlameOut+ concentrate can be easily proportioned (at the correct dilution) using most conventional proportioning equipment such as:

1. Balanced pressure and in-line balanced pressure pumped proportioning equipment
2. Balanced pressure bladder tank proportioners
3. Around-the-pump type proportioners
4. Fixed or portable (in-line) venturi type proportioners
5. Handline nozzles with fixed induction/pickup tubes

The usable temperature range for FlameOut concentrate with this equipment is 35 °F to 120 °F (2 °C to 49 °C).

Storage and Shelf Life:

When stored in the packaging supplied (polyethylene drums or pails) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of FlameOut concentrate may exceed 20 years. Freezing of the product, such as in storage or transport, will not damage the product. Upon thawing, the product will continue to be usable. Gentle mixing after freeze-thaw cycle is recommended.

Inspection:

As with any fire suppressing agent, FlameOut concentrate, whether in concentrate or pre-mixed form, must be inspected periodically per the requirements of NFPA 11 "Standard for Low-, Medium-, and High-Expansion Foam." Samples must be submitted annually to the manufacturer or a qualified laboratory for quality condition testing. Refer to the Field Inspection Manual for detailed inspection procedures. At a minimum, an annual inspection is recommended, unless some unusual exposure occurs which may require more frequent testing and maintenance. In such cases, contact the manufacturer for more information.

Approvals and Listings:

1994 EPA Halon 1211 substitute
2003 USFS 5100-307 Class A Wildland Foam
2009 EN 1568-3:2008 Class B Low-Expansion Foam (at 1%, 3% and 6% with both seawater and freshwater)

Ordering Information:

FlameOut is available in pails, drums, totes, or bulk shipment.

Description

Pail 5 Gal (19L)

Drum 55 Gal (208L)

Tote 265 Gal (1000L)

Bulk Order

Shipping Weight

45 lbs (21 kg)

495 lbs (225kg)

2332 lbs (1058 kg)

Contact Manufacturer