GREENFIRE®
FIRE SUPPRESSION INNOVATIONS

FIREFIGHTING FOAM (GFFF)

FLUORINE FREE

ECO FRIENDLY

THE GREENFIRE® DIFFERENCE

- Non-Clogging
- Pumper Fitting Safe
- Non-Corrosive to Induction Pumps
- Non-Carcinogenic
- Non-Toxic
- Easy Clean Up (Zero Haz-Mat)
- Food Environment Safe
- PFAS Free
- Zero VOC
- USDA Recognized
- NSF White Book Listed

PRODUCT OVERVIEW

GreenFire® FireFighting Foam (GFFF) is designed as a highly effective PFAS-free foam replacement for AFFF. Can be used in the same applications as AFFF foam, and requires no additional equipment, nozzles, or hoses for use. Safeguard your health and the environment when you make the switch to GreenFire®.

CLASSIFICATION

Class B

NFPA MEMBER 2021-2022 · NSF · GREENSCREEN CERTIFIED · MADE IN USA

TESTING

GreenFire® Firefighting Foam (GFFF) is a non-toxic, PFAS-free alternative to AFFF foam. It is an effective Class B foam that can be used in the same applications as AFFF using the same equipment, but without the toxic consequences.
Currently used and trusted by fire departments, and has been subjected to government testing (DOD, DOE, EPA, FAA) with successful outcomes.

INDUSTRIES

- Commercial
- Industrial
- Fuel Transportation
- Aviation
- Inner City
- Railways

DESIGNED FOR USE IN

- Fire Engines
- Foam Tenders
- Compressed Air Foam Systems (CAFS)
- Fire Sprinklers*

RECOMMENDED APPLICATION RATES

CAFS (Compressed Air Foam System): 3%-6%

Conventional Foam Nozzles: 3%-6%

**Manufacturer approvals required*

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+1 (888) 766 7327 sales@gogreenfire.com
101 S. Kraemer Blvd. Suite 100 Placentia, CA. 91024
www.GoGreenFire.com

PHYSICAL PROPERTIES

Proportioning Ratio: 1%-6%
Specific Gravity: 1.02g/cc
pH: 6.8-7.6
Viscosity: ~42cP (non-Newtonian varies depending on shear rate)
Shipping Specifications: 5 gal. (19 Liters.) 55 gal. drums (209 Liters.)
Storage Temperature: 40°F-100°F
Surface Tension: 32 dynes/cm
Storage: For long term use make sure GreenFire® Firefighting Foam (GFFF) is properly maintained in the approved container and stored within the recommended range, there is no shelf life.

**Please Note – If freezing occurs, thawing and subsequent stirring will make the product completely serviceable.*

TYPICAL PROPERTIES

Nominal Use concentration: 3%
Specific Gravity@77F (25C): 1.02g/cc
pH @77F (25C): 6.8-7.6
Density: 8.51 lbs./gal.
Viscosity @77F (25C): ~41cSt (non-Newtonian: varies depending on shear rate)
Minimum use temperature: 35 F (1.7C)
Storage temperature: 40-100F (4.5 – 38C)
Freezing point: 30F (-1C)
Appearance: Amber liquid

FIREFIGHTING APPLICATIONS

- Petroleum or Alcohol-based fires
- Aircraft hangars
- Fuel storage
- Mechanical bays
- Equipment

SHIPPING SPECIFICATIONS

- 5 gal. (19 Liters)
- 55 gal. drums (208 Liters)
- 275 gal. Tote (1041 Liters)

RECOMMENDED APPLICATIONS

The 0.1% – 3% can be used with conventional foam equipment with fresh, sea or brackish water.
Self inducting foam nozzles and foam nozzles with in-line inductors are among the most common types of hardware for application.
In addition to its use in aspirating foam equipment, it can be dispensed effectively through non-aspirating equipment Including fog nozzles, water spray devices and standard sprinklers.
Is effective in sub surface injection systems for non-water-soluble hydrocarbons. Sub surface injection is safe and reliable for fixed protection of storage tanks.
GreenFire® Firefighting Foam (GFFF) may be applied to tires simultaneously with dry chemical firefighting agents because the two are compatible.

FEATURES

GreenFire® Firefighting Foam (GFFF) does NOT have a positive spreading coefficient and is therefore **NOT considered an AFFF type foam.**
However, its ability to form a stable foam blanket covering a fuel surface allows it to be used effectively in many applications where AFFF foams have previously been the standard. Provides positive fire suppression and vapor control.
Proportions Readily: Permits use in a wide range or proportioning equipment.
Solution Stability: Solutions of GreenFire® Firefighting Foam (GFFF) do not present "transit time" limitations through handlines or in fixed systems.