



DID YOU KNOW

Wildfires in the United States typically burn between **4 million** and **9 million** acres each year.

The Ultimate Solution for Forest and Wildland Firefighting

Product Overview

IFP UNILIGHT FR is a cutting-edge, environmentally conscious, and highly effective foam concentrate designed specifically for combating Class A fires in forest and wildland scenarios. This non-corrosive, non-toxic, and biodegradable foam concentrate is formulated to enhance firefighting performance using potable or sea water.

When mixed with water in proper proportions, IFP UNILIGHT FR significantly alters the water's physical properties. It reduces surface tension, enabling superior adhesion to vertical and horizontal surfaces, minimizing runoff, and maximizing heat absorption and fuel penetration.



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Why Forest Fires Require Specialized Agents?

Forest fires, also known as wildfires, are among the most destructive natural disasters. They can spread rapidly, fueled by dry vegetation, wind, and heat, often consuming vast areas of forest and endangering ecosystems, wildlife, and human communities. Traditional firefighting methods, such as water application alone, often fall short due to the complex nature of forest fires.

The primary challenges include:

- **High Heat Intensity:** Forest fires generate extreme heat, which makes water alone insufficient for effective cooling.
- **Fuel Penetration:** Thick vegetation, timber, and organic material create layers of fuel that are difficult to reach with conventional water streams.
- **Spread Control:** Fires often spread vertically (tree canopies) and horizontally (ground vegetation), requiring a solution that can adhere to these surfaces without runoff.
- **Environmental Considerations:** The need to preserve ecosystems and minimize chemical impact necessitates the use of biodegradable and non-toxic firefighting agents.
- **Specialized agents like IFP UNILIGHT FR** are essential because they address these challenges with precision and efficiency. By reducing water's surface tension, the foam allows for deeper penetration into dense fuels, enhanced heat absorption, and adherence to vertical and horizontal surfaces, effectively slowing down and extinguishing the fire.

Integrated Fire Protection Pvt. Ltd.

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Key Features

- Wide Compatibility: Effective with potable, salt, brackish, and hard water.
- Environmentally Friendly: Biodegradable and safe for the ecosystem.
- Broad Application: Ideal for tackling forest fires, wildland fires, and other Class “A” combustible materials.
- Easy Proportioning: Compatible with a wide range of standard firefighting equipment.

Application Range

The recommended mixing ratio of IFP UNILIGHT FR with water is 3.4:1.

TYPICAL CHARACTERISTICS

Appearance	clear, colorless liquid
pH	7.0 to 8.0
Specific Gravity	1.00 to 1.05
Viscosity	< 10cst
Pour point	-5°C

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