



RISING TO THE CHALLENGE OF AFFF REPLACEMENT





What is AFFF?

Since the 1960s, aqueous film-forming foam (AFFF) has been the ideal firefighting foam to suppress high-hazard flammable liquid fires. Its low viscosity allows the synthetic foam to spread across the surface of flammable liquids rapidly and prevents reignition once the fire has been extinguished. Traditional AFFF is used to suppress hydrocarbon fuel-based fires, while Alcohol Resistant AFFF (AR-AFFF) is used for the extinguishment of polar solvents.

Today, AFFF is used in a wide range of applications with substantial flammable liquid hazard present, such as:

- ▶ Aviation Operations
- ▶ Military Facilities
- ▶ Chemical Plants
- ▶ Offshore Platforms and Marine Vessels
- ▶ Oil Refineries
- ▶ Loading/Unloading Racks
- ▶ Flammable and Combustible Liquid Storage Facilities
- ▶ Emergency Response Vehicles

What's the problem?

The key synthetic surfactants that are utilized in AFFF and AR-AFFF are perfluoroalkyl and polyfluoroalkyl substances (PFAS). Historically, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) are the most widely used PFAS in the U.S.

In recent years, the U.S. Environmental Protection Agency has found that PFAS do not break down and they can accumulate over time. Both PFOA and PFOS are persistent in both the environment and in the human body. There is evidence that exposure can lead to adverse human health effects.

So, what does this all mean? It's time for a better solution. One that is just as effective, but not harmful to people and the environment.

How are we going to fix it?

With the increasing environmental and health concerns along with mounting regulatory demands, PFAS-free foam research is top of mind for AFFF manufacturers. Hiller has been working alongside and in conjunction with the leading manufacturers on the development, design and application of new products that can perform effectively in the extinguishment of critical fuel fires to save lives and property while considering environmental sustainability throughout the entire life cycle of the foam.

We are proud to now have a variety of AFFF and AR-AFFF replacement options available to our customers, including other non-foam fire protection solutions. Our goal is to not only provide the best product and design solutions but also to develop the best team possible to execute the work and to responsibly dispose of the hazardous foam agents currently contained within the existing systems.

Scan here to learn more about the alternatives to AFFF and request a quote:



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