



BAUM'S
Novacool®
fire fighting technology

Environmentally Friendly Wastewater Tests Confirm it!

Run-off created after fighting a fire is a major concern of municipalities. Many have monitors on the scene during and after a fire to test the amount of contaminants carried off by the firefighting water used to extinguish the fire.

Wastewater systems have been severely compromised and failed due to the use of outdated foams such as AFFF (Aqueous Film Forming Foams).

AFFF has been used extensively in fighting fires since they were first developed in the 1960's to combat volatile hydrocarbon based fires that pooled on the water's surface. It wasn't until wastewater systems began failing that testing on the environmental consequences of AFFF commenced.

Most of the fire suppressants in use today, especially AFFF, are made with fluorochemical surfactants, (hereinafter referred to as fluorosurfactants) Perfluorooctyl sulfates (PFOS) and Perfluorooctylbetaines that can oxidize to Perfluorooctanoic acid (PFOA).

As an unintended consequence, because neither PFOA or PFOS naturally degrade, there have been many cases of groundwater contamination and failure of waste water treatment facilities. Furthermore, these fluorosurfactants have been shown to be persistent in the environment and bio-accumulative in many species. Because of this, these aqueous, film forming foams have been under intensive investigation by the Environmental Protection Agency (EPA) for their role in damaging valuable natural resources.

Thankfully, technology has come to the rescue with the invention of Novacool UEF, an environmentally friendly firefighting foam that is completely bio-degradable. It has been found to be non-toxic and exceeds EPA guidelines. Novacool has been tested by water districts throughout the U.S. Novacool contains no EPA or Dept. of Transportation (DOT) reportable chemicals and contains no nonylphenoethoxylates (NPE's) or glycol ethers. Novacool replaces AFFF and ozone depleting halon gases, eliminating the release of toxic hydrofluoric acid and fluorocarbons that had been damaging the environment.



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Novacool, with its rapid extinguishment and reduced water usage minimizes water damage and the resulting water pollution that large scale water usage can create. Less erosion is another important benefit of using Novacool due to the fact that less water used means less run-off to cause erosion. This also translates into less damage to the property owner, quicker clean-up time by the fire departments and less impact on our natural resources.

Novacool UEF is applied at the rate of 0.4% for Class A fires and 0.5% for Class B fires. This means that at a minimum, compared to 3% solutions, Novacool requires less than 15% of concentrate and at 6%, requires about 7% concentrate of its competition. Fire Departments are discovering that, even at a higher per gallon cost, Novacool is a much cheaper solution to their firefighting foam requirements.

Novacool has been tested by independent, 3rd party labs in Corvallis, Oregon, Dallas, Texas and others for groundwater contaminants. Because Novacool does not contain PFOA or PFOS, NPE's, or glycol ethers, Novacool has been proven to not create toxic build up in the environment or to pollute groundwater. Novacool exceeds EPA guidelines.

Not only is Novacool a more effective fire extinguishing agent, it is also more user friendly. One foam that works on Classes A, B, D and K fires.

Benefits of Novacool UEF:

- 1. Dramatic and immediate COOLING of the fire site!**
- 2. 70% faster extinguishment of the fire!**
- 3. Up to 90% lower water usage!**
- 4. Most cost-effective fire extinguishing agent on the market!**
- 5. Extinguishes A, B, D and K fires and 3D fires; cools, blankets, and emulsifies surfaces; eliminates possibility of re-ignition.**
- 6. Usable with eductors, injectors, CAFS, or batch mixed;**
- 7. Non-corrosive: no adverse effects on tanks, pumps, valves and portioning equipment.**
- 8. Equally effectively when mixed with fresh, brackish, or sea water;**
- 9. Eliminates run-off and water damage.**
- 10. Non-toxic, biodegradable, UL Listed.**
- 11. Manufactured entirely in the U.S.A.**



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