



Baum's Novacool® UEF

Baum's Castorine Co. Inc. has been manufacturing fire suppression foams since 1980. Baum's Novacool® UEF is a mixture of Anionic, Nonionic and Amphoteric surfactants. It does not contain any nonylphenoethoxylates (NPE's), Fluoro-surfactants, or glycol ethers. Test data shows it to be readily biodegradable.

Novacool UEF works in three ways to extinguish a fire. It reduces the surface tension of water to improve the penetrating ability of water, it vastly improves the heat transfer from the fuel into water and with its cooling and blanketing properties, reduces fuel vapor pressure of class B fuel materials.

- When applied as foam through a foaming nozzle or CAF it can fill voids and stick to a vertical surface.
- Environmentally responsible formula, readily biodegradable
- Contains no alcohols – It will not cause AR AFFF to become insoluble in water.
- Can be mixed with fresh, brackish, or sea water with good foam in all water types.
- Run off is greatly reduced or eliminated due to the reduced amount of water required to extinguish the fire and the wetting properties that keep the water on and in the fuel.
- Will coat Class A fuels (even waxy vegetation) to increase moisture content. This will provide a barrier to an oncoming flame front.
- Use concentration 0.4% Class A fires, 0.5% Class B fires, UL classified per NFPA 18.



Technical Data

NFPA 18 Sec. 5.2.1 Pour Point Temperature - 8° C

NFPA 18 Sec. 5.2.2 Miscibility

0.4% agent

AGENT °C	WATER °C	RPM (stirrer)	MISCIBILITY (revolutions)
21	21	60	10
4	4	60	10
4	21	60	10
21	4	60	10

3.0% agent

AGENT °C	WATER °C	RPM (stirrer)	MISCIBILITY (revolutions)
21	21	60	10
4	4	60	10
4	21	60	10
21	4	60	20

NFPA 18 Sec. 5.2.5, Average pH obtained 6.97

NFPA 18, Sec. 5.2. Viscosity

Temperature (C)	Viscosity (cps)
49	24.48
2	71.27
21	39.52

NFPA 18, Sec. 5.3.1, Surface Tension

0.4% agent

Temperature (C)	Surface Tension (Dynes/cm)
22.2	23.9
-18	24.0

0.3% agent

Temperature (C)	Surface Tension (Dynes/cm)
22.2	25.2
-18	25.2



NFPA 18, Sec. 5.2.3, 5.3.2, Separation on Standing - 100% Completed

NFPA 18, Sec. 5.2.4.4, Impact of Low Temperature on Surface Tension - 100% Completed

NFPA 18, Sec. 5.3.2, Separation on Standing - 100% completed.

- NFPA 18, Sec. 5.3.4.1, Class A Fire Extinguishment - Wood Crib Test 100% completed.
- NFPA 18, Sec. 5.3.4.2, Class A Fire Extinguishment - Deep Seated Fire Test 100% completed.
- NFPA 18, Sec. 5.3.4.3, Class A Fire Extinguishment - Wood Fiber Board Penetration 100% completed.
- NFPA 18, Sec. 5.3.5, Class B Fire Extinguishment Tests, 100% completed