



## F-500 Overview

F-500 Encapsulator Agent (EA) is uniquely different from any other fire suppression product you may be familiar with.

F-500 EA has three characteristics that result in Rapid Knockdown and Extinguishment:

1. **Encapsulates Fuel** - F-500 EA encapsulates flammable liquids and vapors, rendering them nonflammable.
2. **Rapidly Cools** - F-500 EA is engineered to provide rapid heat reduction that allows for improved firefighter life safety and quick fire extinguishment.
3. **Interrupts Free Radical Chain Reaction** - F-500 EA interrupts the free radical chain reaction, which limits the creation of soot and smoke and results in increased visibility and rapid fire extinguishment.



### F-500 EA is not a foam!

F-500 EA does not create and maintain a foam blanket to extinguish a fire and does not require the specialized equipment that is required when using foams.

### FIRE SUPPRESSION

**UL Classified for use on Class A and Class B fires.**

**Class C fires:**

3% F-500 Encapsulator Agent has been tested and approved by Con Edison for transformer fires. After the power is removed, F-500 EA can be safely applied without fear of electrical feedback to the nozzle if the stream comes into contact with nearby energized peripheral equipment.

F-500 EA has also been tested and recommended by Bosch, Daimler, Dekra and Deutsch ACCUmotive in Germany as the best agent tested for lithium-ion hybrid and electric car fires.

**Class D fires:**

F-500 EA is also very effective on Class D fires. It will not flare-up or explode, like water. F-500 EA is applied at 3% with a low pressure, fog pattern to create maximum cooling effect.

### FLAMMABLE LIQUID SPILL CONTROL

F-500 Encapsulator Agent can also be used to neutralize fuel spills. HAZMAT units find this to be a very convenient, cost-effective and efficient solution to highway clean-ups and industrial spills. After encapsulating hydrocarbon fuels, the remaining solution is not slippery, and is nonflammable and nonignitable. Depending on local regulations, traffic can drive through the spill or it can be safely vacuumed and hauled away.

**Encapsulation Formula:**

1 part F-500 Encapsulator Agent and 40 parts water for 8 parts of fuel spilled. Agitate vigorously during application.

Additional water is not detrimental, however additional F-500 EA will not improve encapsulation.

### USING F-500 ENCAPSULATOR AGENT

**Equipment:** F-500 EA requires no special equipment to apply and is noncorrosive to firefighting apparatus.

**Delivery Systems:**

- F-500 EA can be batch mixed in apparatus tanks. Typically, F-500 EA is mixed at 0.5 - 1% for common Class A fires and 3% for Class B, Class D, car fires and hydrocarbon spills.
- F-500 EA can be placed in an on-board foam tank and proportioned with apparatus or pump-mounted devices.
- F-500 EA can be educted via in-line or around-the-pump eductor. As with all firefighting agents, the nozzle and eductor must be matched for the appropriate pressure and flow rate.

**Environmental:**

F-500 EA is nontoxic, non-skin sensitizing and 100% biodegradable.

F-500 EA is listed on the US EPA NCP Product Schedule as a surface washing agent.



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