



F-500 Encapsulator Agent Features and Benefits

F-500 Encapsulator Agent (EA) is the premiere UL Listed firefighting agent for use on Class A, Class B, and Class D fires. F-500 EA is nontoxic, noncorrosive, non-skin sensitizing and 100% biodegradable. F-500 EA requires no special equipment and can be educted or batch mixed in your apparatus tanks. F-500 EA is available in 5-gallon pails, 55-gallon drums and 250 or 275-gallon IBC totes.

F-500 EA provides many Life Safety benefits over plain water and traditional foams:

- **Quick Knockdown**
4-5 times faster than water alone
- **Rapid Heat Reduction**
F-500 EA has 6-10 times the cooling power of plain water
- **Rapid Smoke Reduction**
Dramatically reduces smoke and toxins to increase safety and visibility for firefighters
- **Fuel Neutralization**
Neutralizes hydrocarbon fuels to prevent dangerous rekindles and flareups

FEATURES	BENEFITS
Fast Extinguishment	<ul style="list-style-type: none"> • Saves lives • Reduces risk to firefighters • Decreases property damage • Less fatigue results in fewer insurance claims and reduces premiums • Uses less water and agent; excellent for rural firefighting
Rapid Heat Reduction	<ul style="list-style-type: none"> • Firefighters can confidently attack the fire • Reduces threat of reignition • Eliminates steam reducing workman's comp claims • Reduces threat of combustion to surrounding infrastructure • Disrupts combustion process leading to quick extinguishment
Surface Tension Reduction	<ul style="list-style-type: none"> • Increases surface coverage and penetrates pores of Class A materials • Facilitates spreading of F-500 EA in Class B fuels • Limits flammable solids from floating on water (coal dust or sawdust)
Enhanced Burn Back Resistance	<ul style="list-style-type: none"> • Penetrates into pores preventing the fire from restarting
Reduces Smoke	<ul style="list-style-type: none"> • Improves ability to locate trapped individuals • Improves firefighters' ability to see obstacles and hazards • Reduces dangerous toxins
Noncorrosive	<ul style="list-style-type: none"> • Booster tank pumps and plumbing will not be affected by F-500 EA • No special cleaning or maintenance of equipment is required after use

Uses for F-500 Encapsulator Agent

FIRE SUPPRESSION	
Class A	<ul style="list-style-type: none"> F-500 EA is cULus listed for Class A fires Excellent for structure, car, tire, plastics, coal and paper fires
Class B - Polar Solvents	<ul style="list-style-type: none"> F-500 EA is cULus listed for Class B fires F-500 EA's rapid cooling and encapsulation capabilities allow it to simultaneously remove heat from the fire and surrounding structures and encapsulate the flammable vapors rendering them nonflammable. Excellent for all polar solvents - Gasoline, diesel fuel, heating oil, jet fuel
Class B - Nonpolar Solvents	<ul style="list-style-type: none"> F-500 EA is cULus listed for Class B fires F-500 EA's rapid cooling and encapsulation capabilities allow it to simultaneously remove heat from the fire and surrounding structures and encapsulate the flammable vapors rendering them nonflammable. Excellent for all nonpolar solvents - Ethanol and ethanol-blended fuels
Class C	<ul style="list-style-type: none"> 3% F-500 EA was tested and recommended by Con Edison for transformer fires. Testing proved a stream at 125 feet was safe up to 345 KV in case adjacent equipment is energized. 3% F-500 EA was tested and recommended by Bosch, Daimler, Dekra and Deutsch ACCU-motive in Germany for lithium-ion electric car fires
Class D	<ul style="list-style-type: none"> Rapidly removes the extreme heat from combustible metals Will not explode, like when water is applied Unsurpassed for extinguishing today's car fires involving magnesium components Successfully used on magnesium and titanium shavings and solids

FUEL NEUTRALIZATION	
Spill Control	<ul style="list-style-type: none"> F-500 EA neutralizes hydrocarbon fuel spills A ratio of 1 part F-500 EA and 40 parts of water will encapsulate 8 parts of flammable liquids, rendering them nonflammable and nonignitable. The harmless solution can be left to evaporate or safely cleaned up, depending on local regulations. Applications include ruptured automobile fuel tanks or tank trucks, train derailments and industrial site spills.



ISO 9001 Registration

F-500 EA is manufactured in compliance with HCT's ISO 9001 Quality System, which ensures customer and end user confidence in consistent, reproducible, traceable and reliable quality processes from production to shipment - 100% of the time.

UL Listed

F-500 EA is listed for Class A and Class B fires.

EPA NCP Product Schedule Listed

F-500 EA is listed on the National Contingency Plan Product Schedule of the U.S. Environmental Protection Agency as a surface washing agent.*

ISO Fire Suppression Rating Schedule Equivalency List

F-500 EA complies with the Insurance Services Office (ISO) Equivalency List as equivalent to foam.

* F-500 EA is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of F-500 EA on an oil discharge. This listing means only that data have been submitted to EPA as required by Subpart J of the National Contingency Plan, 40 CFR Section 300.915.



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