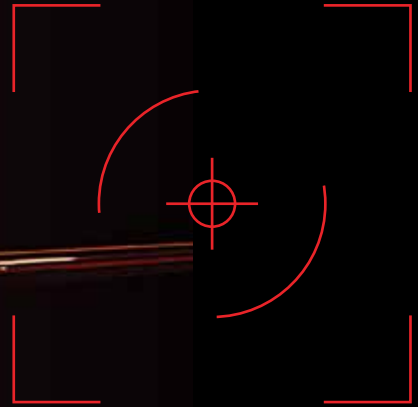




# Military Hazard Protection with NFPA 18A





**Exploring**

## Hazard Control in the Armed Forces

Today's military intelligence is utilizing state of the art technology containing mixed and at times hazardous materials. As milspec firefighting foams continue to be phased out due to high levels of PFAS chemicals, the Army, Marine Corps, Navy, Air Force, Space Force, and Coast Guard are in need of an eco-friendly agent capable of handling a variety of specialty fire hazards. Encapsulator Agents adhering to NFPA 18A are an excellent choice for fire protection, explosive vapor mitigation, flammable spill control, and contamination response.



**“Ultimate protection against lithium-ion battery fires for the marine, commercial, and private sectors.”**

Johnson Controls on F-500 EA®

**Hazard Control Technologies, Inc.**

150 Walter Way, Fayetteville, Georgia 30214 / +1 (770) 719-5112 / [info@hct-world.com](mailto:info@hct-world.com) / [hct-world.com](http://hct-world.com)

# Armed with Advanced Hazard Protection

## Encapsulator Agents

Encapsulator Agents can provide the Armed Forces with an innovative fluorine free solution for multi-class and three-dimensional fires when plain water and fluorine free foams fall short.



## FAA AC 150/5210-6E

Encapsulator Agents are included in the FAA's Advisory Circular providing material covering Aircraft Fire Extinguishing Agents.



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0.5% – 1%



3%



3%



3%



## Mitigating

# Class A Hazards

Extinguish natural and synthetic materials using significantly less water with the addition of F-500 EA®.

# Class B Hazards

F-500 EA® can neutralize hydrocarbon based polar and non-polar fuel, including Jet Propellant 8 (JP-8).

# Class C Hazards

Independent testing has shown F-500 EA® can effectively extinguish fires within an energized environment.

# Class D Hazards

F-500 EA® can mitigate combustible metal hazards in machinery and vehicles containing magnesium and titanium.

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## Lithium-ion Hazards

F-500 EA® sits on a foundation of over fifteen years of third-party testing for lithium-ion battery hazard mitigation.



## Alternatives to Milspec Foams

### Hazard Comparison

### Fluorine Free Foams

### F-500 EA®

Class A



Class B (Flat Spill)



Class B (Three-dimensional)



Class C (Energized Environments)



Class D



Lithium-ion Batteries



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# Fire, Vapor, Spill, and Contamination Testing since 1997

**F-500 EA®**

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Our flagship Encapsulator Agent, F-500 EA®, has undergone decades of scientific testing to ensure optimum safety, performance, consistency, and environmental sustainability.

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## Codes and Standards

### **NFPA 18A Section 7.7**

Tests an Encapsulator Agent's ability to render fuel nonflammable and nonignitable over time.

### **NFPA 18A Annex 4.3**

Recognizes third-party scientific testing of Encapsulator Agents on lithium-ion battery fire hazards.

### **UL NFPA 18**

Tests a Wetting Agent's ability to mitigate Class A and Class B fires as well as flammable spill control.

### **NEN NTA 8133**

Tests a fire extinguisher's ability to extinguish lithium-ion battery fires under 600 Wh.

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# How to Specify and Order F-500 EA®

**Department of Defense  
National Stock Numbers**



<b>Part #</b>	F500-005G
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<b>NSN #</b>	NSN 4210-01-387-5658
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## Description

F500 Multi-Purpose Encapsulator Agent,  
5-Gallon Pail

<b>Part #</b>	F500-055G
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<b>NSN #</b>	NSN 4210-01-387-5675
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## Description

F500 Multi-Purpose Encapsulator Agent,  
55-Gallon Drum

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