



Lumber Hazard Protection

**FIRE AND EXPLOSION
PREVENTION FOR WET
AND DRY OPERATIONS**



**PROTECT YOUR
FACILITY AND PREVENT
DOWNTIME WITH ONE
INNOVATIVE ECO-FRIENDLY
ENCAPSULATOR AGENT**

EXPLORING TODAY'S LUMBER FIRES

Contemporary sawmills are at high risk. Sawdust, specifically, is both an explosion and fire hazard. An accumulation of sawdust alongside hot machinery and hydraulic oil can quickly create a perfect storm. Irreparable damage to just one piece of machinery can result in losses upwards of \$300,000 as well as weeks of downtime and lost revenue. If appropriate fire protection isn't in place, a sawmill's cramped environment can allow flames to spread rapidly, forming an industrial fire that's difficult for first responders to access, navigate and mitigate. Adequate in-house fire protection is essential.



HAZARD CONTROL TECHNOLOGIES

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FIREFIGHTING

Safely extinguish fires involving raw material, machinery and more.



HEAT REDUCTION

Rapidly cool processing equipment, such as failing bearings.

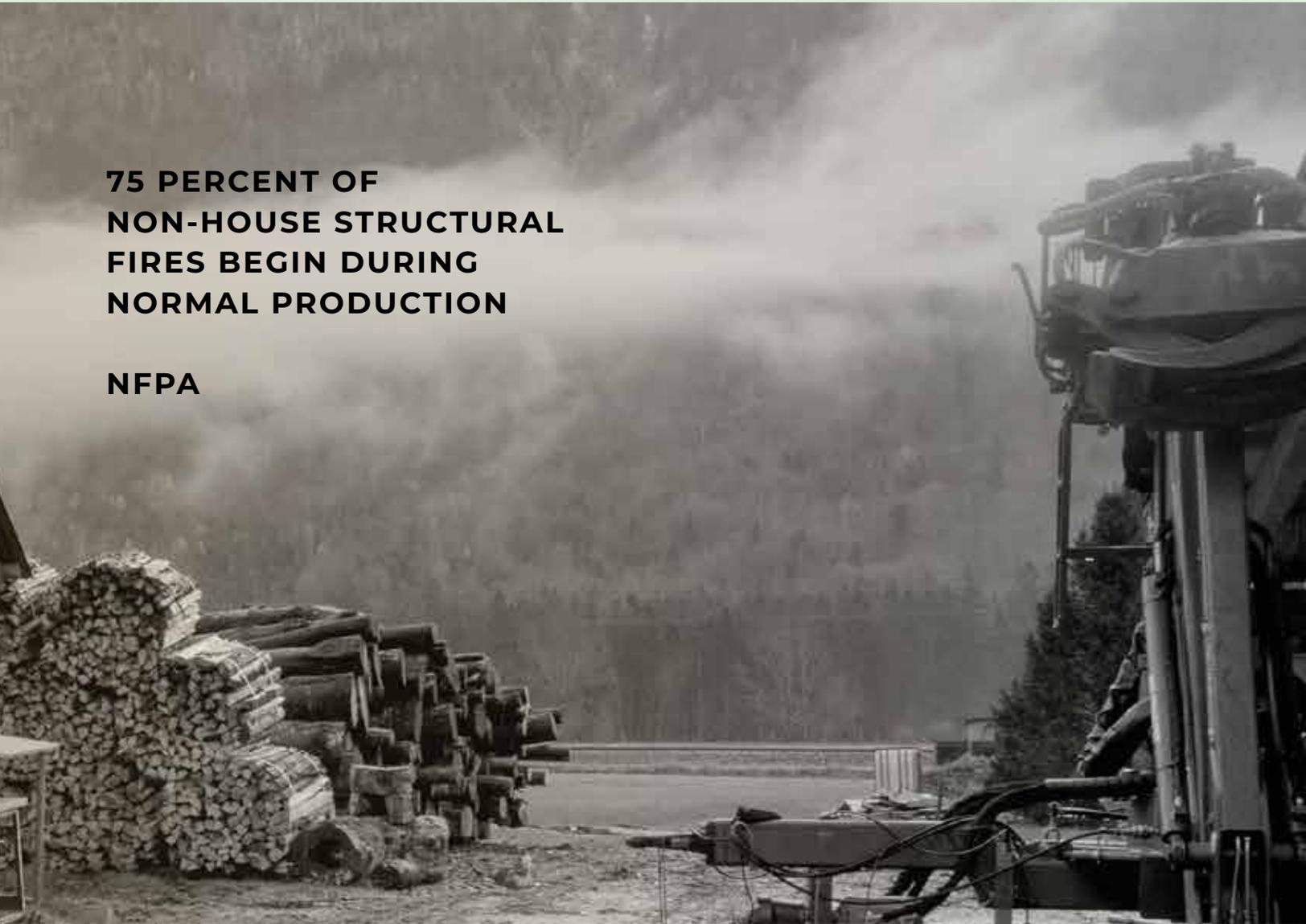


HOUSEKEEPING

Prevent combustible dust fires and potentially fatal explosions.

**75 PERCENT OF
NON-HOUSE STRUCTURAL
FIRES BEGIN DURING
NORMAL PRODUCTION**

NFPA



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SUPERIOR PROTECTION

Fire mitigation is a struggle for the lumber industry due to a lack of protection against multi-class hazards. F-500 Encapsulator Agent (F-500 EA) works on a molecular level, altering the chemical makeup of plain water. Unlike fluorine free foam, it is not limited to Class B two-dimensional fires. It is listed for Class A as well as both Class B two-dimensional and three-dimensional fires under NFPA 18A. Fifteen years of extensive third-party testing demonstrates the effectiveness of F-500 EA on both Class D and lithium-ion battery fires.

NFPA 18A

ENCAPSULATOR AGENTS (EA)

SECTION 7.7

This section covers the test procedure to evaluate the ability of a water additive solution to form and maintain stable spherical micelles capable of encapsulating combustible and flammable liquids (polar and non-polar), rendering the flammable liquids non-flammable, non-ignitable and non-explosive and maintaining that encapsulation in the presence of high heat over an extended period of time.

SPHERICAL MICELLE STABILITY



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PRE-TREATING FOR FIRE PREVENTION

Encapsulator Agents double as powerful preventative agents. Even wet operations require fire protection as combustible dust can collect underneath crucial equipment without regular housekeeping, creating a fire hazard.

Preemptively apply F-500 EA to logs, lumber, oil and fuel spills for up to 2 weeks of fire resistance.



PRE-TREATING

1%



HOUSEKEEPING

0.5%

EXPLORING

TKO NOZZLES

Our Turbo Knockdown and Overhaul Nozzles (TKO Nozzles) contain a 0.5-gallon reservoir to house Encapsulator Agent concentrate for rapid deployment. TKO Nozzles are ideal for both firefighting and housekeeping in confined spaces.

20 GPM



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0.5% – 1%



3%



3%



3%



MITIGATING

CLASS A HAZARDS

Rapidly extinguish saw dust, shavings and lumber while providing unrivaled exposure protection.

CLASS B HAZARDS

Render polar and non-polar fuels nonflammable, including diesel and hydraulic oil.

CLASS C HAZARDS

Third-party testing shows the effectiveness of Encapsulator Agents in an energized environment.

CLASS D HAZARDS

Safely mitigate hazards containing flammable metals, such as vehicles, processing equipment and more.

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NEN

NTA 8133

This Dutch standard is the first publication that deals with lithium-ion batteries, applying to smartphones, laptops, drones and more. Only extinguishers meeting its requirements, such as F-500 EA, may use the NTA 8133 marking. Our European Water Mist Hose is third-party tested on lithium-ion batteries up to 3,400 Wh, far exceeding the NEN minimum of 600 Wh.

EXPLORING

DIAMOND DOSER

The Diamond Doser Water-driven Proportioner offers a simple solution for today's lumber industry hazards. The compact one-piece system is powered by Encapsulator Technology, accurately proportioning concentrate into any new or existing sprinkler system using water flow alone. Experience unmatched fire protection with a fluorine free multi-class agent.

NFPA 18A

ANX 4.3

Encapsulator Agents conforming to Section 7.7 have been tested extensively by independent third-parties. This testing has been controlled, scientific and instrumented, documenting fire suppression, control and the elimination of thermal runaway as well as the encapsulation of flammable electrolyte and other explosive off-gases, reducing the toxicity.



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