

EXTINGUISHING POWER FOR CLASS A. B. D AND F FIRES

CAPABILITY TO REDUCE

GASES AND SMOKE

FIREFIVE: THE ERA OF THE MICELLE ENCAPSULATOR

Our product was created by the desire to revolutionise the traditional approach of fire fighting...

We have developed a strategic formula to improve the fire suppression power which is also happens to be a plentiful, natural and ecological element: water!

We have discovered that our products' performance is setting a new market standard, relying on a unique element: a micelle encapsulator wetting agent. This maximizes cooling strength and leverages the extinguishing power of the water to suppress A, B, D and F class fires and at the same time inhibits the chemical reaction at the basis of fire propagation.

Introducing a one step fire fighting product, a high technology solution with 5 properties. FireFive®:



INTEGRATED ABILITY TO ENCAPSULATE LIQUID AND GASEOUS FUELS



FAR-REACHING ABSORPTION OF ENERGY. TRIGGERING COOLING POWER



EFFICIENCY IN THE MOST EXTREME ATMOSPHERIC CONDITIONS, UP TO -28°C (-18°F)

advantaces

- Extreme versatility for class A,B,D and F fires High cooling power
- Drastic reduction of suppression time
- Encapsulation and neutralization of hydrocarbons
- Inhibition of toxic smoke and vapours

- ★ The lowest mixing ratio on the market
- Non-toxic, non-corrosive and biodegradable
- **△** Effectiveness up to -28° thanks to its lower viscosity

APPLICATIONS

Oil tanks

Process plants

 Power plants Loading bays

(polymers and elastomers)



metallurgic industry

- Process plants •
- Coal warehouses •
- Transformers •
- Conveyor belts •

oil, chemical and petrochemical industries

Warehouses of semi-finished and finished products

manufacturing industry

Warehouses of semi-finished products and finished (wheels, plastic, wood, paper, fabrics)



civil buildings and forest fires

- Technical rooms •
- Forest fires (provided to fire brigades) •



marine

- Hangar
- Helv decks
- Bilges
- Machinery spaces
- Accommodation spaces



HOW IT OPERATES

MAXIMES WATER POWER

FireFive® works to reduce the water surface tension which is reduced by approximately 3 times after introducing the FireFive® encapsulator.

Single water drops separate and reform as droplets, losing their spherical shape, with consequent increasing of wettability, penetrating the fire more deeply and quickly.

COOLS SURFACES AND REDUCES HEAT

FireFive® is characterized by an extreme cooling power. Thanks to this unique property, it removes heat from the fire, drastically lowering both the temperature of the application zone and the surrounding areas, consequently inhibiting re-ignition, backfires and radiation

ENCAPSULATES AND NEUTRALIZES HYDROCARBON MOLECULES

One of the most astonishing FireFive® features is to encapsulate both liquid and gaseous hydrocarbon molecules even in three-dimensional fire cases.

It encloses fuel molecules with a chemical covering named micelle, isolating and neutralising them, rendering them non-flammable.

INTERRUPTS THE FREE RADICAL CHAIN REACTION

FireFive® restricts chain reaction of the free radical, high reactivity particles which stoke combustion propagation and smoke production.

Encapsulating toxic smoke and vapours, FireFive® increases visibility, rendering the environment more safe for rescue operators.

PACKAGING

FireFive® is supplied in:









20/25 liters booster tank 200 liters stock

1000 liters booster tank

FIREFIVE

the micelle encapsulator era

FireFive® micelle encapsulator is a technologically advanced product, incorporating a revolutionary wetting agent, designed to extinguish fires, tailored to perform in the most extreme environments.

Laboratory and field tests have been conducted in cooperation with professional firefighters, used on live fire exercises. Results show that FireFive®, mixed with water in a very low percentage, can extinguish class A, B, D and F fires. Unlike traditional foam based products, FireFive® can additionally suppress three-dimensional fires.

Its efficiency is tested and certified by RINA and UL according to Regulation NFPA 18. In compliance with European REACH Regulation for chemical agent classification, FireFive® requires no special equipment and can be used both with fire mixer and in a premixed solution.



A COST SAVING FIREFIGHTING CHOICE

The ability to empower water with the lowest mixing ratio on the market, suppressing fires very quickly, allows the most efficient response for the investment.

By choosing **FireFive**® you choose:

- the fire
- used to extinguish of added agent
- - damage and environmental impact
- Saving of water Minimum quantity Reduced property Reduced inactivity time for industrial and marine applications

TO USE WITH

FireFive® is non corrosive and can be used with

- Fire extinguisher and vehicles Cooling systems

 - Deluge systems Fire hydrants
- - Sprinkler systems Fixed monitors
 - Medium pressure Low pressure
 - water mist systems water mist systems



Non toxic - eco-friendly - in accordance with REACH Regulation





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ENCAPSULATES, COOLS DOWN AND EXTINGUISHES FIRE.

The next generation Wetting Agent technology







