

COLD FIRE®

The Next Generation
in Firefighting



COLD FIRE

COLD FIRE® is an environmentally friendly fire extinguishing agent, leading the way in fire fighting technology and revolutionizing the way fire fighters combat fires. **COLD FIRE®** gets its name from its extraordinary ability to remove extreme heat from any object in which it comes in contact. **COLD FIRE®** works to remove heat and the hydrocarbon fuel source from the fire triangle. The suppressants in **COLD FIRE®** use water as a catalyst to remove the heat as well as encapsulate and breakdown the hydrocarbons in the fuel source to extinguish the fire more rapidly.

FIREFREEZE WORLDWIDE, INC., manufacturer of **COLD FIRE®**, developed **COLD FIRE®** based on the need to supply the fire fighting industry with a efficient and effective fire fighting agent that not only extinguishes fire quickly, but does so without harming the environment, fire fighters, and fire victims. **COLD FIRE®** was developed with enhanced safety and future generations in mind.

“Cold Fire® will allow fire fighters to do their job more quickly and safely, saving more lives, property, and the environment for generations to come.”

Juergen Giessler,
Inventor of Cold Fire®
and President of
FireFreeze Worldwide, Inc.

WHY USE COLD FIRE®?

- UL Classified Wetting Agent for Class A and B fires.
- EPA-SNAP (Significantly New Alternative Policy Program) Listed.
- Considered an acceptable substitute to toxic foams and Halon.
- Non Toxic
- Non Corrosive—product can be dumped directly into booster tank. No need to flush out lines.
- Biodegradable
- Unique Thermal Insulation Capability. Helps to minimize heat exhaustion.
- Extinguishes on Contact
- Prevents reignition when properly applied
- Encapsulates and breaks down hydrocarbons; thereby reducing hydrocarbon smoke and increasing visibility..
- Enhances the penetration capability of water, extinguishing the fire faster, using less water, thereby reducing water damage and water supply needs.
- No Messy Clean up is Required.
- COLD FIRE® is non-slip.
- Indefinite Shelf Life when stored in closed containers—store in your booster tank, water pressurized units or closed loop systems for use anytime.
- Extinguishes Class D fires.



BULK APPLICATIONS:

COLD FIRE® is added to pumper apparatus, reservoirs or inducted into fire hose lines in order to attack larger fires. No special equipment is required. **COLD FIRE®** is added at given percentages depending on the nature of the combustible materials involved.

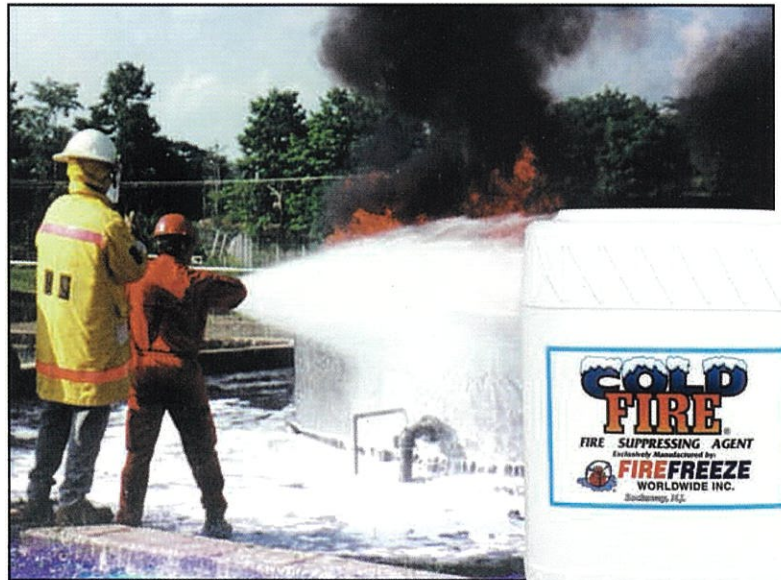
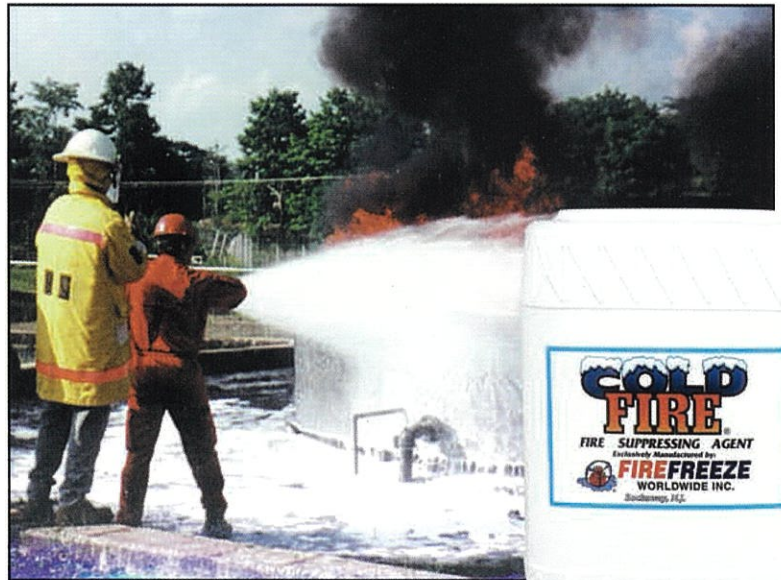
PERCENTAGES:

CLASS A: 0.15%-1%
(Use 0.5%-1% for Brush Fires)
CLASS B: 1.5%-3%
CLASS D: 6%-10%

APPLICATION PRESSURE:

NOZZLE: Use 100-110 psi.
PUMP: Use 150-175 psi.

AVAILABILITY: 5 and 55 gals.



PORTABLE EXTINGUISHERS:

COLD FIRE® can also be used in various sized portable extinguishers. Sizes range from 1 - 4 liter units, as well as 1.5 and 2.5 gallon units. A 10% solution ratio is recommended. Firefreeze offers 32oz bottles of **COLD FIRE®** to simplify the refilling of these units.



CLOSED LOOP SYSTEMS:

COLD FIRE® can also be used in closed loop systems, sprinkler systems, and on-board extinguishing systems. These systems range in size from 5 pound racing systems to 2.5 gallon systems, which can be used in heavy equipment, such as logging skidders. The **COLD FIRE®** systems are available with manual or automatic heads. Other areas of use for these systems include: street rods, kit cars, motor homes, work shops, heavy equipment, aviation, rail and marine industries. These units are re-fillable and rechargeable by the user. Firefreeze offers pre-mixed bottles of **COLD FIRE®** to simplify the refilling of these units.



WINTERIZED COLD FIRE®

COLD FIRE® can now be winterized to -50° below zero in a pre-mixed solution for use in filling your 1.5 and 2.5 water extinguishers and fire suppression systems. This unique mixture allows **COLD FIRE®** to be used in extreme cold weather conditions. The winterized **COLD FIRE®** will be manufactured upon request.



COLD FIRE® 12 OZ. AND 32 OZ. BOTTLE

COLD FIRE® Rapid Surface Cool Down & Heat Barrier Spray was designed as a safety tool for personal safety and trade applications. The product is available in three convenient easy to use applications, a 12 oz. high air powered aerosol can (red nozzle), a 12 oz. fine mist air powered aerosol can, (white nozzle), and a 32 oz. pump bottle, depending on your specific application needs.

USAGE:

The product can be used:

- To cool down hot surfaces rapidly for added safety and increased productivity
- As a heat barrier spray to help prevent heat damage and the possibility of hidden fires
- To extinguish small start up spot fires

These unique capabilities make **COLD FIRE®** an excellent safety product for plumbers, welders, roofers, and mechanics, all who work with hot surfaces and open flame. For personal safety at home and on the job, keep a can or bottle in your car, boat, workshop, kitchen and garage. These units are light in weight and easy to handle. The aerosol cans spray in any direction, even upside down for use in hard to reach places. The units can easily be carried in tool box or you can attach our convenient ready to use holster to your tool or radio belt for immediate accessibility.

WELDING

Use to cool down hot parts after welding or heating. Use for added protection in paint and body work applications



PLUMBING/HVAC

Use as a heat barrier when soldering to protect valuable parts as well as to prevent hidden fires



MOTORSPORTS

Instantly cools down hot brakes, rear ends and other auto parts



AUTOMOTIVE

Cools down hot engine parts



SPOT FIRES

Extinguishes small spot fires



HOUSEHOLD

Use to cool down lawn and other hot equipment for added safety



TECHNICAL DATA:

Underwriters Laboratories Listing:



UL Classified for Class A & B Fires.
UL Classified #: 2N75

Tested in accordance with NFPA 18, Standard for Wetting Agents; UL 162, Applicable portions of the Standard for Foam Equipment and Liquid Concentrate; and UL 711 for Class B fires.

Underwriters Laboratories of Canada Listing:



ULC Classified under file #: Cex 1225.
ULC Subj. C175.

EPA SNAP (Significantly New Alternative Policy) Program Listing

COLD FIRE® has been listed by the United States Environmental Protection Program on their SNAP Program Vendor List. This list contains products that are considered acceptable alternatives to toxic products on the market today.

COLD FIRE® has been classified by the US EPA under "Surfactant Blend A".

COLD FIRE® is listed by the US EPA under this program as a substitute for Halon 1211.

Hazardous Materials Identification System (HMIS)

Health Hazard: 0
Reactivity: 0
Flammability: 0

MSDS & TOXICITY TEST INFORMATION AVAILABLE UPON REQUEST FROM FIREFREEZE WORLDWIDE, INC.

COLD FIRE®'S COOLING EFFECT

COLD FIRE®'s cooling effect makes it an advantageous fire fighting product. Not only does this unique characteristic assist in extinguishing the fire faster, but it works to enhance safety and safeguard the lives of fire fighters and victims. When **COLD FIRE®** is applied to a fire, it quickly penetrates the hot surface and extracts the heat from a fire without steam conversion. (Water and foam do not have the same penetration capability of Cold Fire).

COOLING TEST DATA CONDUCTED BY INTERTEK TESTING SERVICES:

Procedure: Materials were heated to 500°F using a hand torch. Using a thermal couple, the surface temperature of each of the following "Hot" materials was recorded as well as how quickly Cold Fire cooled down these surfaces when applied in comparison to water and ambient air.

Copper: Copper was heated and sprayed for 29.89 seconds. It took 27 seconds for the Copper to reach 87.3°F when using Cold Fire. It took 4 min. 30 sec. for the Copper to reach 84.6°F using water. It took 11 min. 6 sec. for the Copper to reach 95.9°F using ambient air.

Sheet Metal: Sheet Metal was heated and sprayed for 15.69 seconds. It took 14 seconds for the Sheet Metal to reach 84.5°F when using Cold Fire. It took 4 min. 50 sec. for the Sheet Metal to reach 84.5°F using water. It took 9 min. 11 sec. for the Sheet Metal to reach 91°F using ambient air.

Glass: Glass was heated and sprayed for 23.47 seconds. It took 31 seconds for the Glass to reach 84.0°F when using Cold Fire. It took 2 min. 26 sec. for the Glass to reach 85.8°F using water. It took 8 min. 23 sec. for the Glass to reach 85.2°F using ambient air.

Steel: Steel was heated and sprayed for 48.23 seconds. It took 46 seconds for the Steel to reach 88.9°F when using Cold Fire. It took 9 min. 17 sec. for the Steel to reach 89.2°F using water. It took 8 min. 24 sec. for the Steel to reach 91°F using ambient air.



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**INDUSTRIES IN WHICH
COLD FIRE® IS USED:**

- Federal, State, City and Local Fire, EMS, and Police Departments
- Military/Governmental Entities
- Port Authorities
- Transportation Agencies
- Marine Industry
- Aviation
- Manufacturing Facilities
- Construction, Plumbing, Welding & Roofing Industries
- Automobile Manufacturing
- Motorized Racing Industry
- Power Plants & Utilities
- Foundries
- Forestry
- Correctional Facilities
- Security Industry
- Paper & Textile Industry
- Mining Industry
- Oil Refineries
- Steel Industry
- Metal Manufacturing
- Logging



Cold Fire can be used to extinguish aircraft fires and to cool down the fuselage for added safety



Cold Fire being used in a Bambi bucket to extinguish forest fires



Extinguishes Class D (metal) fires



Cold Fire's use on extinguishing fuel fires helps to prevent re-ignition

Distributed by:

TO OBTAIN MORE INFORMATION, OR ARRANGE A LIVE DEMONSTRATION OF **COLD FIRE®**, PLEASE CONTACT:



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