



~TECHNOLOGY~
Fire Fighting Catalyst (FFC)

DESCRIPTION:

- ENVIRO-SAFE® WET CHEM**
(A High Kinetic Active Foamer & Clean Agent)
- USAGE: FIRESTOPPER PORTABLE SYSTEMS (Exclusivly)**
- CLASS: A B C/E D & K/F, (E&F: EU)**

The FFC, is a proprietary *Trade Secret Technology* and *formulations*, within the meaning of the *Uniform Trade Secret Act* (“UTSA”) *Cal. Civ. Code Sec. 3426*, Common law, *Business and Profession §17200* and all other applicable statues.

PFE-FR’s ENVIRO-SAFE® Technology is designed with exclusive properties that combine multiple fire suppression and barrier production environments, to deliver deep penetration with tremendous endothermic capability, to fully extinguish and obviate these extremely hazardous and dangerous environments.

The *FFC Technology Products* are the only **A, B, C/E, D, & K / F** fire-fighting products in the market that deliver faster knockdown, no flash back, faster cool down and fully reliable post fire security. In addition, this technology is proven to be the only viable, “**green**”, powder, gas and drop-in Halon/streaming gas replacement.

As an added convenience, when applied to class B & K fires, there is **no emulsification**, making clean up fast, easy and non-hazardous.

This product is designed for exclusive use in conjunction with **FireStopper portable hardware systems only and is not available for purchase by any other third party.**



▲ CLASS A



Structure Fires: Fast knockdown and extinguishment occurs when applying **PFE-FR (FFC)** directly to the fire. The *FFCs* totally prevent the thermal inversion phenomenon unlike water & class A-foams that convert into steam, rising through the thermal column and then release the trapped hydrocarbons at the ceiling as they ignite, creating a deadly fire hazard. The *FFC’s* retardant properties instantly penetrate deeply through the surface to the fiber, significantly reducing surface and area temperatures thus eliminating *re-ignition*.

▲ CLASS B & K/F



FFCs are fully effective on all hydrocarbon fuels, *Polar, Non-Polar, Fats and Vegetable Oils*, providing instant post fire retardant reliability and unmatched cooling capability. **No Emulsification** makes clean up fast, easy and *Non-Hazardous*.

▲ CLASS C/E



FFCs are the only available and reliable products to quickly and fully extinguish *Electric Transformer* fire hazards.

◆ **Class C/E listing is dependent on the hardware system. [FFCs are accredited at 100kv (US) and 35kv (EU) testing]**

▲ CLASS D (METALS)



(Not Tested On Lithium Or Sodium Metals)

Applied directly on to the metal fire source will rapidly contain, cool and extinguish the hazard.

FOREST & WILD FIRES










PFE-FR (FFC) Portable System Application:

1. Land base application: (a) stop fire progress (b) create firebreak (c) post fire cleanup
2. Pretreatment on structures to prevent ignition and to protect against oncoming

fires, reducing property and collateral damage

3. Usable through all available portable systems

ADVANTAGES

-  *Non-toxic, non hazardous and non-corrosive*
-  *Biodegradable*
-  *Anti-explosive properties*
-  *No unpleasant odor*
-  *Great temperature reduction i.e. (>1500°F in < 40 sec.)*
-  *Freeze Resistant: -100°F (-73.33°C)*
-  *Compatible with all other wet and dry chemicals*
-  *Superior performance on all Class A, B, C/E, D, and K/F fires*
-  *Effective on marine fires and will adhere to surfaces such as fiberglass, etc.*

ENVIRONMENTAL AND TOXICOLOGY TESTING


PFE-FR (FFC) was independently tested and found to be non-hazardous to humans and animals. The mixture is not an eye or skin irritant and is non-toxic when tested according to the *FHSA* protocols. It is judged to pose no chronic health hazard. *Under European standards (OECD 301 part A-F), FFC's meet "green" qualification. The FFCs require no special labeling or chronic health hazard warning statements and comply with FHSA regulations, 16 CFR 1500 and California Proposition 65.*

SPECIFICATION/APPLICATION

PFE-FR (FFC) has a water-thin viscosity, making it ideal for potable fire suppression systems and manual applications to fight the broadest range of class *A B C/E D (Lithium or Sodium metals excluded) & K/F fires.*

APPLICATIONS through portable systems:

 Petrochemical Industry	 Transportation
 Tires & Rubber	 Warehousing
 Vehicles: Interiors And Exteriors	 Docks & Spills
 Flammable Metals	 Structural
 Military	 Forest & Wildfires
 Transformers	 Aero Space
 Mines	 Cargo Holds
	 Drop-In Halon Replacement * & More....

 *The FFC technology is the only viable, full spectrum fire fighting, "green" drop-in Halon replacement.

APPROVALS AND LISTINGS

- ANSI/UL 711; 711A
- ULC/CAN/ULC-S508
- NFPA 10
- SwRI®

STORAGE AND HANDLING

As recommended by FireStopper (the manufacturer) and recognized *NFPA* recommended usage instructions and procedures.



◆ **IMPORTANT NOTICE TO PURCHASER: ANY ALTERATION TO THE ORIGINAL FORMULA, EXCEPT FOR ITS INTENDED END USE, SHALL VOID ANY AND ALL WARRANTIES OF PRODUCT.** The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: Sellers and manufacturer's only obligations shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user will assume all risk and liability whatsoever in connection therewith. **NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.**