

# FM-200 FIRE SUPPRESSION SYSTEM

## QUICK FACTS

### Very Fast Fire Stopping Power

FM-200® (Heptafluoropropane) is a compound of carbon, fluorine and hydrogen (CF<sub>3</sub>CHF<sub>2</sub>CF<sub>3</sub>). HFC-227ea is a fast acting clean agent fire suppression gas with a wide range of benefits and applications. FM200 Fire Suppression is a suitable agent for normally occupied spaces. FM200 fire suppression systems are commonly used in:

DATA Centres  
Comms Rooms  
Telecommunication facilities  
UPS Rooms  
Medical facilities

### How does FM200 work?

There is a common misconception that FM200 gas reduces oxygen this is not true! FM200 is a synthetic/chemical fire suppression gas and extinguishes a fire by removing the free radicals or heat elements from the fire triangle. (Oxygen, Heat and Fuel).

The typical concentration of an FM200 system is normally between 7.9% to 8.5%. This concentration is determined by the risk that is being protected and by the OEM (Original Equipment Manufacturers) and the ISO14520 standards for fire suppression systems.

### VERY FAST STOPPING POWER

FM-200 systems reach extinguishing levels in 10 seconds or less, stopping ordinary combustible, electrical, and flammable liquid fires before they cause significant damage. That's the fastest fire protection and fire extinguishing system available, period. When fire is extinguished this quickly, it means less damage, lower repair costs, and an extra margin of safety for people. It also means less downtime and disruption of business by the way systems are designed.

### How safe is FM200?

FM200 fire suppression is found as an active compound as a propellant in medical inhalers. This goes without saying that FM200 gas is extremely safe for occupied spaces with the correct fire suppression design.

### ECO-FRIENDLY HALON 1301 REPLACEMENT

FM-200 is an important part of an environmentally responsible clean agent fire suppression solution with a zero ozone-depleting potential. This makes it a suitable choice for new installations using total flooding systems, and for Halon 1301 replacement applications.

## **What are the advantages of an FM200 fire suppression system?**

The main advantage of FM200 fire suppression, is the small amount of agent required to suppress a fire. This means fewer cylinders, therefore less wasted space for storage of FM200 cylinders. FM200 systems reach extinguishing levels in 10 seconds or less, stopping ordinary combustible, electrical, and flammable liquid fires before they cause significant damage. FM200 extinguishes the fire quickly, which means less damage, lower repair costs. Like any other fire suppression system, FM200 systems are designed with an extra margin of safety for people. Refilling FM200 is simple and cost effective, therefore, it also means less downtime and disruption to your business.

FM200 is classed as a clean agent which means that it is safe to use within occupied spaces. The safety of FM200 fire suppression environments is proven in over a decade of real-world experience and validated by extensive scientific studies. FM200 systems take up less storage space than most other fire suppressants.

In addition to the fire protection benefits of using FM200, the environment will benefit as well. FM200 fire suppressant does not deplete stratospheric ozone, and has minimal impact on the environment relative to the impact a catastrophic fire would have. FM200 fire suppression is a solution that is already working in more than 100 thousand applications, in more than 70 nations around the world.

### **CLEAN AGENT**

FM-200 is an odorless, colorless, liquefied compressed gas. It is stored as a liquid and dispensed into the hazard as a colorless, electrically non-conductive vapor that is clear and does not obscure vision. It leaves no residue.

### **WIDE RANGE OF APPLICATIONS**

FM-200 provides superior fire protection in a wide range of applications from sensitive electrical equipment to industrial applications using flammable liquids and storage space. FM-200 is clean, leaves no residue, thereby eliminating costly after-fire clean-up, and keeping expensive “down-time” to a minimum with waterless fire protection.

### **SAFE FOR OCCUPIED SPACE**

FM-200 fire suppressant can be safely used where people are present when used as specified in the United States Environmental Protection Agency (EPA) Significant New Alternative Policy (SNAP). This clean agent extinguishes a fire by a combination of chemical and physical mechanisms. It does not displace oxygen and therefore is safe for use in occupied spaces without fear of oxygen deprivation. This allows personnel to see and breathe, permitting them to leave the fire area safely.