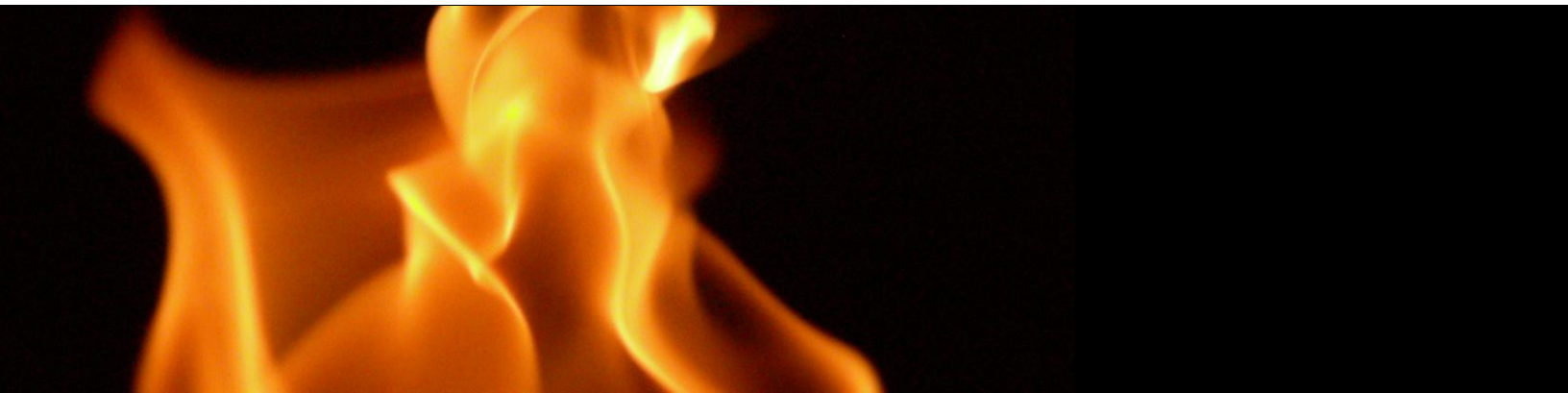





Clean Agent



*your **TRUSTED** partner in fire safety*



A fire is DEVASTATING! Conventional fire systems provide personal and structural protection. But when it comes to high value assets and irreplaceable items, water can be just as damaging as any fire!



Gaseous Fire Suppression or Clean Agent fire suppression are terms used to describe gases used to extinguish fires. Typically gaseous agents work in one of two ways, the first is to inert the atmosphere reducing oxygen levels to a level that will no longer sustain combustion, the second is to react chemically with the fire absorbing heat and causing the chain reaction of combustion to break down.

Clean Agent fire extinguishing systems are typically used to protect three dimensional enclosures containing high value assets that are vital for business continuity, and assets that cannot be protected by traditional sprinkler systems due to the potential for water damage. Typical examples of system applications include telecommunication facilities, clean rooms, data processing centres and museums.

Regulatory authorities in Canada govern the use of gaseous agents, systems and hardware. Compliant systems are subject to testing and an approval process that takes into account agent importation licenses, pressure vessel approvals, system performance, reliability, human safety, environmental impacts etc. Clean Agent fire suppression products supplied by Phoenix Fire Systems Inc are environmentally friendly and cost effective solutions and meet all regulatory authority requirements.

Where easy clean-up, minimal down time, business continuity and people safety are overriding factors, you need to consider clean agent gaseous suppression for your fire protection needs. We will help analyze your facility and operations to determine the most suitable fire suppression agent for your application and your business.

CARBON DIOXIDE

Carbon dioxide (CO₂) is a colourless, odourless, electrically non-conductive gas that is highly efficient. CO₂ has been used as an extinguishing agent for more than 80 years and was the first gaseous agent used for fire suppression. It can be used for local application and total flooding systems and is suited to a wide range of applications and hazards. CO₂ has a high rate of expansion enabling rapid fire suppression and provides a heavy blanket of gas that reduces the oxygen level to a point where combustion cannot occur. CO₂ is not approved for occupied spaces unless fitted with a safety interlock device to prevent the system from discharging when the enclosure is occupied. Like all fire protection systems, CO₂ systems should only be designed by experienced engineers. CO₂ can be used to protect applications such as generator sets, turbines, switch gear, flammable liquid baths, electrical enclosures and transformer

NOVEC 1230™

Novec 1230™ (C6 Fluoroketone) Fire Protection Fluid is a second generation clean agent gaseous suppression system. Novec 1230™ is a chemical agent used primarily in total flooding systems and is the most environmentally benign of all the chemical agents. Novec 1230™ is used in applications ranging from computer rooms / data centres, telecommunications facilities, switch gear, high-tech medical applications, and pleasure craft to priceless works of art and historic landmarks. Novec 1230™ is truly a real breakthrough in clean agent technology, a liquid at room temperature, it looks, feels and acts like water allowing flexibility in recharge procedures. In particular our higher storage pressure at 34.5 bar (500psi) allows the greatest flexibility for the system design.

FM-200®

FM-200® (HFC-227ea) Clean Agent fire extinguishing systems are the most widely used of all the halocarbon gaseous agents, and is universally accepted as the best agent used to replace Halon 1301. FM-200® is a chemical agent used primarily in total flooding systems and has been installed in over 200,000 systems worldwide. FM-200® fire suppression systems protect everything from computer rooms / data centres, telecommunications facilities, and switch gear to military vehicles, high tech medical applications, and pleasure craft to priceless works of art and historic landmarks around the world.

TRUST

Phoenix Fire Systems is the trusted, dynamic partner for companies across Canada, providing complete coverage in fire safety.

KNOWLEDGE

For decades we have been bringing together the most knowledgeable staff, best quality equipment and timely solutions to our clients' fire protection needs across every field. We are factory authorized and trained for the world's leading manufacturers of fire suppression equipment.

PEACE OF MIND

We design, supply, install and maintain systems in accordance with the Ontario Fire Code and manufacturer's specifications including;

- ✓ Fire Alarm
- ✓ Exit & Emergency Lighting
- ✓ Portable Fire Extinguishers
- ✓ Fire Hose
- ✓ High Pressure Carbon Dioxide (CO₂) Systems
- ✓ Clean Agent (FM-200[®], Novec 1230[™]) Systems
- ✓ Dry Chemical Industrial Systems
- ✓ Wet Chemical Kitchen Systems
- ✓ Building Fire Alarm Systems



416 742 7222

119 Milvan Drive, Toronto, ON, M9L 1Z9
customerservice@phoenixfiresystems.ca

phoenixfiresystems.ca