

SAPPHIRE™

SUPPRESSION SYSTEMS



Featuring
3M Novec™ 1230
Fire Protection Fluid

*Clean,
Effective,
Sustainable.*



Worth the wait.

When halon was banned from production in 1994, some companies were quick to jump on the first saleable chemical alternatives. In contrast, Ansul introduced the INERGEN® inert gas system, a truly environment and people friendly solution. Today, after years of searching and researching, Ansul and 3M have teamed up to bring you the next generation of *clean, effective, sustainable fire protection...*

ANSUL® SAPPHIRE™ Suppression Systems with 3M™ Novec™ 1230 Fire Protection Fluid.

Long-term technology.

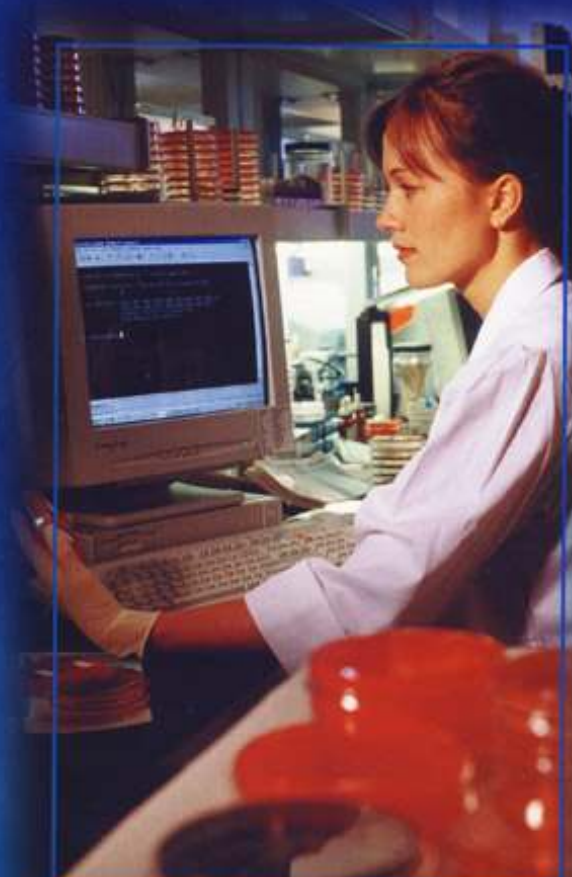
Novec 1230 fire protection fluid is C6 Fluoroketone, a breakthrough compound which provides tremendous environmental advantages over hydrofluorocarbons. In a word: "SUSTAINABLE."

Earth-safe numbers.

Novec 1230 fluid has ZERO ozone depletion potential (ODP) and the lowest atmospheric lifetime for halocarbons: FIVE DAYS (the closest alternative is 33 years). Plus, a global warming potential of just ONE is 99.9% lower than any halocarbon agent acceptable for use in occupied spaces.

Widest margin of safety.

Novec 1230 fluid is used at concentrations of 4 - 6% by volume which is significantly lower than its 10% NOAEL (No Observable Adverse Effects Level). This provides the widest safety margin of any chemical clean agent on the market: 67-150%.



Total flooding performance.

Every SAPPHIRE suppression system is custom engineered for the specific application using the most effective, yet efficient arrangement of storage, actuation, distribution and discharge components. Novec 1230 fluid is stored as a liquid and quickly vaporizes upon discharge to flood the protected space and extinguish fire by absorbing heat.

24-hour protection.

An integrated fire detection and control system is vital for 24/7 fire protection. AUTOPULSE® detection and control equipment is matched with the SAPPHIRE system providing early warning detection, alarm, auxiliary control, and agent release capabilities – for one to ten hazards areas.

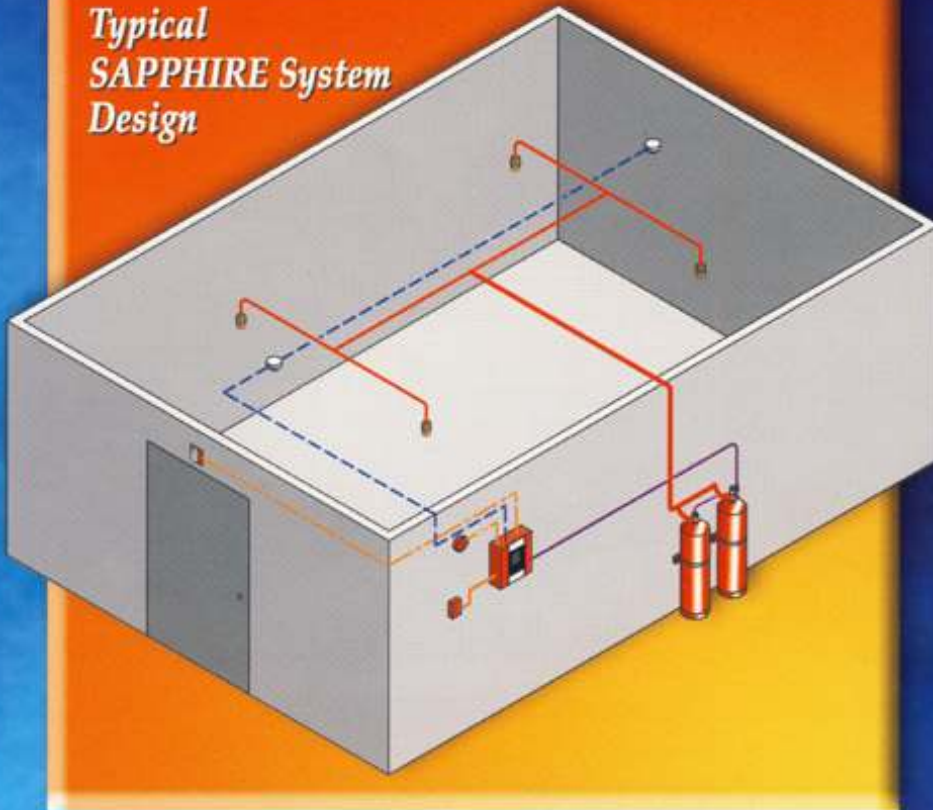
Applications:

SAPPHIRE systems are ideally suited for clean agent, special hazard applications, especially high-value equipment and systems that cannot be shut down in an emergency.

- Telecommunications facilities
- Control rooms
- Data processing centers
- Vaults/tape storage
- Marine vessels
- Critical military systems/vehicles



Typical SAPPHIRE System Design



Listings and Approvals:

- Underwriters Laboratories Incorporated (UL)
- Underwriters Laboratories of Canada (ULC)
- Approved by Factory Mutual Research Corporation (FMRC)
- Approved for Total Flooding Applications by the US EPA as part of the Significant New Alternatives Program (SNAP)
- Complies with NFPA 2001: Standard on Clean Agent Fire Extinguishing Systems
- And Other International Approval Agencies.

