



# Sinorix 1230

- **What is Sinorix 1230?**
  - New Engineered Fire Suppression System from Siemens
  - Uses 3M™ Novec™ 1230 Fire Protection Fluid
  - Uses our current Sinorix227 suppression hardware - No changes to valves, cylinders or actuation devices
  - Alarm and Detection Systems, Sequence of Operations, Installation Methods, Testing – All Remain unchanged
  - Minimal Transition Time for Designers and Installers



# Sinorix 1230

- **What is Sinorix 1230?**
  - Utilizes Hughes Associates Software for Hydraulic Flow Calculations
  - One Software Package for Both Sinorix 1230 and Sinorix 227
    - Upgrade existing HFC227ea Software also available
  - Appearance On-Screen will be Identical for Both
  - Upgraded Software for Ease of Use with All Operating Systems



# Sinorix 1230

- **What is Novec 1230 Fire Protection Fluid?**
  - BEST Environmental Profile of **ALL** Chemical Clean Agents
  - ZERO ODP
  - LOW GWP
    - FE-227/FM-200                      GWP = 3220
    - FE-25                                      GWP = 3500
    - Halon 1301                              GWP = 7140
    - **Novec 1230                              GWP = 1**



# Sinorix 1230

## What is Novec 1230 Fire Protection Fluid?

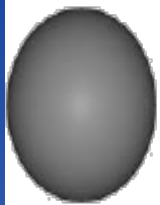
- Novec 1230 fluid is a Fluoroketone – a proprietary 3M technology that offers a number of important advantages over other Chemical Halon replacements.
- Novec 1230 is a Liquid at Room Temperature
  - Vaporizes 50 Times Faster than Water
  - Readily converts to Gas Upon Discharge

## How Does NOVEC 1230 Extinguish a fire?

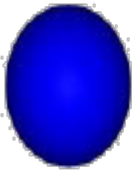
- Novec 1230 extinguishes primarily by cooling the fire



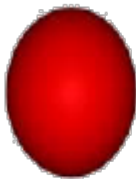
# FK-5-1-12 $(\text{CF}_3\text{CF}_2\text{C}(\text{O})\text{CF}(\text{CF}_3)_2)$



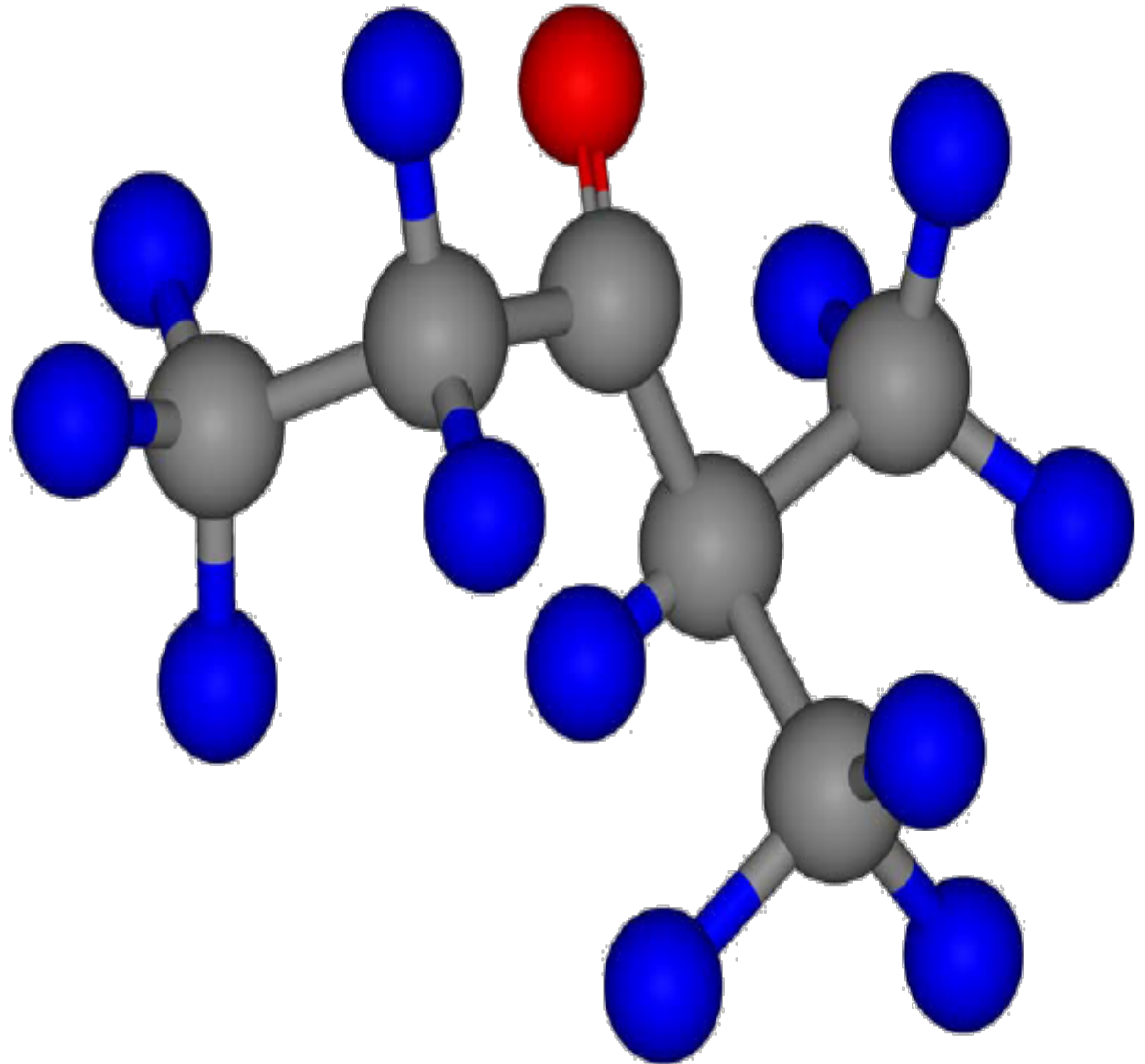
CARBON



FLUORINE



OXYGEN



**SIEMENS**



# Novec 1230 Fire Protection Fluid

- **Where is Sinorix 1230 used?**
  - Anywhere FE-227/FM-200 is Used Currently
    - Data Centers
    - Telecommunications
    - Museums, Art Galleries
    - Medical, Health Care