

How can I protect invaluable assets and the environment from the effects of a fire?

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The Sinorix™ 1230 Intelligent Suppression Solution ensures the sustainability of your business and the environment.

Answers for industry.

**SIEMENS**

# Smart and sustainable

Businesses today depend on critical areas that require a higher level of protection than sprinkler systems or stand-alone smoke detection. A smoldering fire can be incapacitating in critical rooms, including server rooms, telecommunication rooms, electrical switchgear, and clean rooms. Other chemical clean agent fire suppression systems using HFCs, while safe and effective, have been the topic of much discussion and could be subject to production restriction, or be included in environmental legislation. Now Siemens offers a comprehensive solution, Sinorix 1230, the latest in waterless extinguishing technology. Sinorix 1230 balances safe, effective protection of business continuity with the growing concern for controlling greenhouse gas emissions and protecting the environment.

## Innovative, intelligent and environmentally friendly

Sinorix 1230 is an innovative solution that reduces the risk of fire damage in critical applications, sensitive equipment areas, and at museums or archives holding rare and invaluable collections. The Sinorix 1230 solution is based on a long-term, sustainable technology that has one of the highest safety margins in the industry and ensures quick and reliable extinguishing without negative impact on the environment. It utilizes 3M™ Novec™ 1230 Fire Protection Fluid, an environmentally friendly extinguishing agent that is safe at design concentrations, effective, and not subject to regulatory restrictions or phaseout. Extinguishing via its cooling effect, Novec 1230 fluid works as a gas, yet it is a liquid at room temperature.

Before flames become large enough to activate the sprinklers, the Sinorix 1230 system reacts by absorbing the heat. This rapid response interrupts the balance of fire and promptly extinguishes it.

Novec 1230 fluid is a fluoroketone, a proprietary 3M technology that makes Sinorix 1230 an advanced halon replacement alternative with an excellent environmental profile:

- Novec 1230 fluid has a Global Warming Potential (GWP) of 1, the lowest GWP for any chemical clean agent
- Zero ozone depletion potential
- Short atmospheric lifetime of 3 to 5 days; compare this to years, decades and even centuries for other halocarbon alternatives
- Offers a significant reduction in greenhouse gas emissions over hydrofluorocarbons (HFCs), enabling you to replace an existing system and achieve credits toward LEED-EB certification
- Non-toxic, non-flammable, and non-explosive agent has no transport restrictions

- Because its use concentration is much lower than its No Observable Adverse Effects Level (NOAEL), the Sinorix 1230 system offers the largest margin of safety of any chemical halon replacement available on the market today. Note: Industry standards require egress from a protected enclosure prior to system discharge.

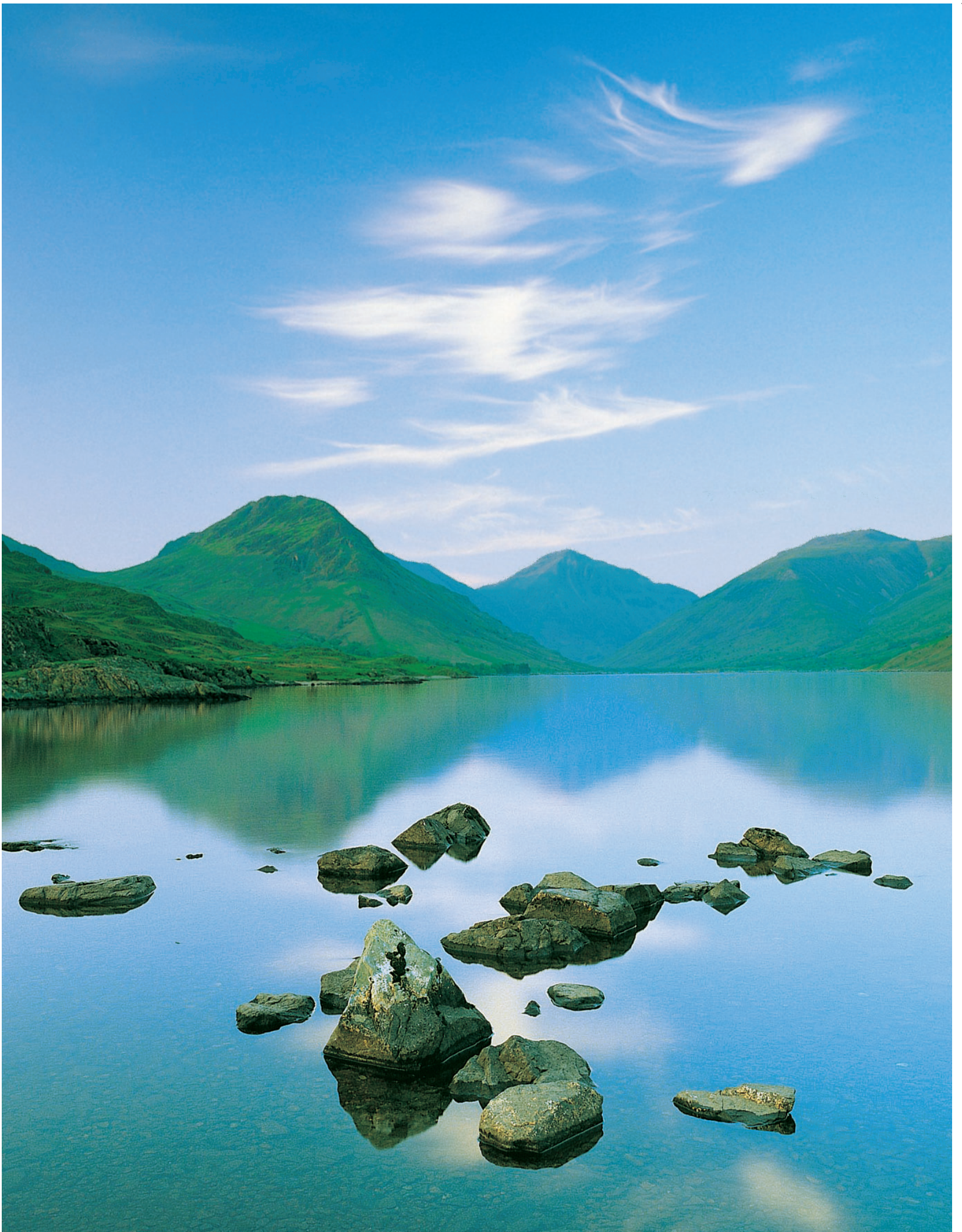
## Scalable solutions for facilities of all sizes

Siemens is the only special hazards fire suppression manufacturer to produce 100% of the detection control and suppression equipment. From the smoke detector to the nozzle, we have you covered.

Siemens offers the widest range of storage options in the industry — with agent storage capacity from 16 to 1200 pounds of Novec 1230 in a single cylinder. This allows for efficient use of cylinders in any combination to meet any project size.

Sinorix 1230 acts rapidly with superior extinguishing properties to help protect valuable assets.







**Safe for assets and people**

The Sinorix 1230 agent is non-conductive, which means it does not damage high value assets such as energized electronics. It is also harmless to human health at design concentrations. A low acute toxicity gives the Sinorix 1230 agent the widest margin of safety compared to halocarbon agents, CO<sub>2</sub> or inert gas mixtures. This makes the Sinorix 1230 system ideal for spaces that are normally or occasionally occupied.

**Environmental performance guaranteed**

The 3M™ Blue Sky™ Warranty is a 20-year protection guarantee against regulatory bans or restrictions on the use of 3M™ Novec™ 1230 Fire Protection Fluid. If Novec 1230 fluid is banned or restricted for use as a fire protection agent due to ozone depletion potential or global warming potential, 3M will refund the purchase price of the fluid.

**Integrated solutions customized to your unique needs**

Siemens is a complete, single source provider of fire detection products and solutions. After decades of comprehensive analysis of fire-smoke data, extensive fieldwork, and testing in the world's largest fire lab, we can confidently state that no one understands fire better than Siemens. We also play a major role in protecting the climate by helping our customers reduce their CO<sub>2</sub> emissions with innovative products like Sinorix 1230.

Our state-of-the-art fire suppression systems work with FirePrint™ Intelligent Fire Detectors, the most highly evolved detection system available today. These detectors feature advanced microprocessing technology and functions similarly to the human brain to discriminate between deceptive phenomena and an actual fire.

FirePrint detectors are backed with Siemens' industry-leading NO-FALSE-ALARM GUARANTEE.

From risk assessment to system design, integration and installation to commissioning and preventative maintenance, we are committed to providing safe, reliable, and sustainable solutions to all types of facilities. Our innovative solutions and expertise ensures your investment is a long-lasting win.

**Call us today to discuss fire and safety solutions tailored to your individual applications.**

FirePrint technology discriminates between deceptive phenomena and an actual fire.





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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.



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Fire Protection Fluid  
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3M™ Blue Sky<sup>SM</sup> Warranty is a service mark of 3M Company.

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