

# Knowledge for safety.

Sinorix™: Centers of competence for fire extinguishing solutions from Siemens.

SIEMENS

Building Technologies

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Center of  
competence  
in Altenrhein

## Knowledge, service, infrastructure.

All about fire extinguishing –  
all about Sinorix™.

With Sinorix™, Siemens offers a leading portfolio of fire extinguishing systems tailored to the specific characteristics of the respective type of fire. These systems are based on in-depth expertise that we systematically develop at two centers of competence in Altenrhein (Switzerland) and Buc (France).

# Center of competence Altenrhein

Knowledge and service on inert gases



The center of competence in Altenrhein at Lake Constance offers not only comprehensive test facilities and services, but also the infrastructure for supplying our customers with agents. Activities and expertise there include:

- Filling stations for N<sub>2</sub> and chemical extinguishing agents
- Warehouse for about 5,000 high-pressure cylinders from 1-140 liters
- Indoor and outdoor facilities for the testing of sprinklers, flooding and foam extinguishing systems as well as chemical and natural gases
- Distribution center for all inert gases marketed by Siemens worldwide
- Main contact for sales, project management, storage, prefabrication, delivery and installation of fire extinguishing systems in Switzerland
- Support and service center for Switzerland – 24 hours a day, 365 days a year





# Center of competence Buc

Expertise on chemical gases



The center of competence in Buc near Paris has global responsibility for Siemens product lines and sales of extinguishing systems using chemical gases. Furthermore, it serves as a global research and development center for fire protection, studying topics such as 42 bar technology for chemical extinguishing gases, CDT, and innovative dual-phase fog extinguishing technology. Activities and expertise there include:

- Global research and development center for Siemens
- Manufacture of key components for all Siemens fire extinguishing technologies and central warehouse for chemical extinguishing gases
- Modern test room for flooding test with chemical and natural gases, and for water fog and foam extinguishing systems
- Support and service center for France – 24 hours a day, 365 days a year
- Filling stations for N<sub>2</sub> and chemical extinguishing agents
- Distribution center for all chemical gases marketed by Siemens worldwide
- International center of competence for supporting business at Siemens branches
- Intensive expert activities in the relevant international standardization bodies in the area of fire safety



Fire extinguishing has a name: Sinorix™ – a complete system family for all types of fire. The chart gives an overview of the utilized extinguishing agents and their respective areas of applications.



## Sinorix™: The system family at a glance

	System	Typical applications
Inert	<b>Sinorix™ Cerexen Nitrogen</b> For room protection <b>Argon</b> Where there is risk of metal fire	<ul style="list-style-type: none"> <li>• Telecommunication systems and computer rooms</li> <li>• Generators, switching rooms and cable ducts</li> <li>• Engines and turbines</li> <li>• Automatic escalators</li> </ul>
	<b>Sinorix™ CDT Nitrogen</b> Controlled gas discharge, regardless of system size	<ul style="list-style-type: none"> <li>• Product and material stores</li> <li>• Switch rooms and supply centers</li> <li>• Laboratories</li> <li>• Archives</li> </ul>
	<b>Sinorix™ Cerexen CO<sub>2</sub></b> CO <sub>2</sub> ist the most effective of all the natural gases but lethal for life	<ul style="list-style-type: none"> <li>• Unmanned locomotives</li> <li>• Transformer and power stations</li> <li>• Machines</li> </ul>
Chemical	<b>Sinorix™ 227</b> 42/25 bar systems combined with the world's most widely spread chemical extinguishing agent	<ul style="list-style-type: none"> <li>• Computer rooms</li> <li>• Telecommunication systems</li> <li>• Electrical switching rooms</li> <li>• Electrical distribution rooms</li> <li>• Underfloor cavities for cables</li> </ul>
	<b>Sinorix™ 1230</b> High pressure technology combined with a state-of-the art chemical extinguishing agent	
Water combined	<b>Sinorix™ GasSpray</b> Nitrogen combined with mist where extra cooling is required	<ul style="list-style-type: none"> <li>• Locomotives and machine rooms</li> <li>• Hydraulic equipment</li> <li>• Emergency diesel generating set</li> <li>• Motor test bench</li> </ul>
	<b>Sinorix™ CerSpray</b> Water vapor spray for object protection	<ul style="list-style-type: none"> <li>• Turbines and generators</li> <li>• Emergency diesel generating set</li> <li>• Motor test bench</li> </ul>



Center of  
competence  
in Buc

## Protection of people and assets is our area of expertise.

People and assets must be protected from fire in every building, at every company. We ask the questions: How should we fight different types of fire so that they are reliably extinguished? How can we prevent damaging secondary effects from fires?

We've been tackling these issues for more than 150 years. Our knowledge about a multitude of fire and fire related phenomena continually grows, and is recognized around the world.

The history of our centers of competence in Altenrhein and Buc began some 20 years ago with the development of new extinguishing methods, systems and agents. Together they form one of the largest private test laboratories in industry. These two centers form the largest private test laboratory in the industry, and have generated a number of innovations that continue to redefine industry standards.

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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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