

Specialty gases



Products, services & solutions

The SIAD Group

SIAD is one of the most important Italian chemical groups in the area of technical gases, engineering, healthcare, services and industrial goods.

The Group has been involved in the business of industrial gases for 90 years and it is also characterised by long and consolidated experience in the engineering sector. In the area of healthcare, it serves health structures and is also present in the homecare market. The range of activities is completed by environmental management services, the

marketing of consumer goods and the distribution of industrial goods.

The diversified range of activities of the SIAD Group translate into an offer which addresses a variety of industrial markets, sectors such as healthcare and the environment and the mass market.

For further information:
www.thesiadgroup.com

Values



Experience, Tradition and Strength



Reliability, Trustworthiness and Competency



Research, Technology and Innovation



Geographical and Sector Diversification

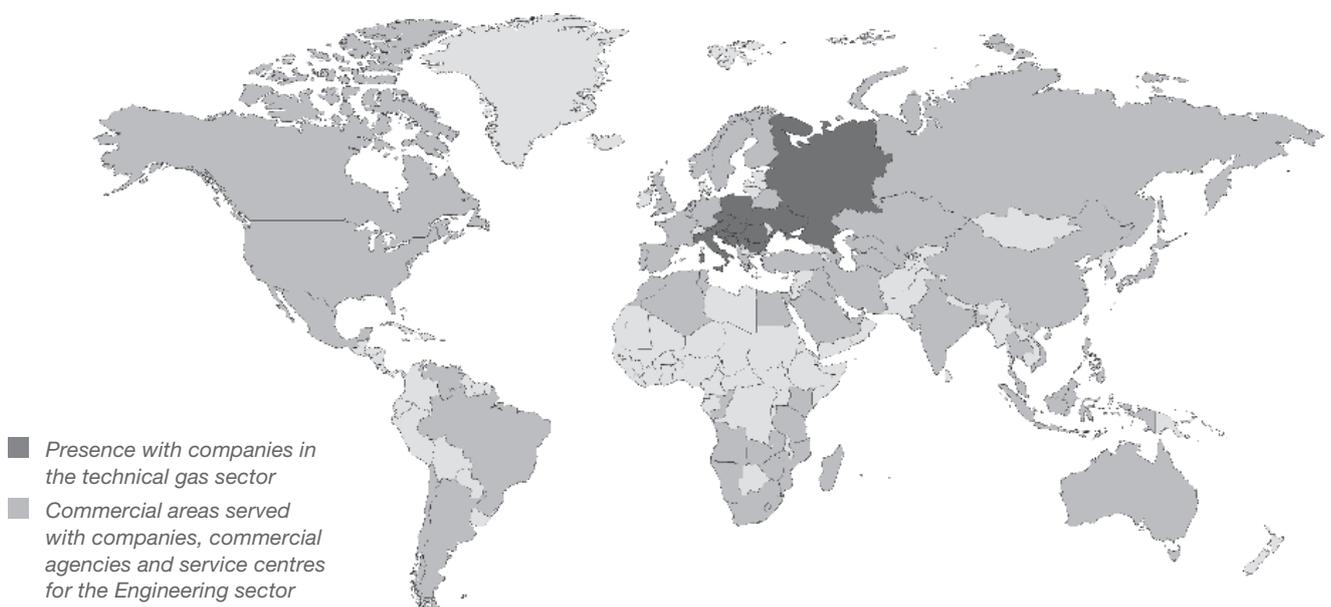


Commitment to Quality, Safety and the Environment



Attention to Social and Cultural Issues

The SIAD Group in the world



The SIAD Specialty Gas Laboratory

Established in the 1930s and situated near the Osio Sopra plant, the SIAD Specialty Gas Laboratory is devoted to the production and analysis of pure and extra pure gases and gas mixtures, as well as to applied research in the service of innovative technologies.

The Laboratory has a leading-edge filling system and a wide and diversified range of instruments and tools; it relies on a team of highly skilled technicians with long-standing experience in the field of specialty gases. Besides high-quality products and services, all this ensures the capacity to quickly adapt the production parameters as a function of user requests, which is confirmed by the wide gamut of gas blends produced. The SIAD Specialty Gas Laboratory was the first gas laboratory in Italy to obtain, in 1994, ISO 9001 quality certification; as further evidence of excellence, it has been accredited by Accredia as a LAT Calibration Centre and Certified Reference Materials Producer. (LAT Centre No. 143T and RMP Centre No. 143R).



SIAD Metrology Laboratory LAT Centre No. 143T and RMP Centre No. 143R

Thanks to its experience, technical knowledge and high degree of know-how, SIAD's Research Laboratory, has been accredited by Accredia as Calibration Centre LAT No. 143T according to ISO 17025, and Reference Material Producer RMP No. 143R according to ISO GUIDE 34. The Centre are accredited for the production of certified reference materials, gravimetric and analytical calibration of gas mixtures and calibration of equipment for analytical measurements.

Over the last few years, the need for Certified Reference Materials and traceable metrological calibration mixtures is progressively increasing. A clear and documented traceability to the SI Units maintained by National and International Metrological Institutes is increasingly in demand. The attribute that distinguishes the calibration of the LAT and RMP (Reference Material Producer) Centre is the metrological traceability of measurement results. This is a competitive advantage on global markets, which allows:

- improving the quality of the measurement systems and hence the increase of the quality of the end product;
- alignment of the measurement systems with international standards which results in increasingly more accurate measurements.

The Centre produces traceable metrological mixtures that can be used in the environmental field for monitoring gas emissions of vehicles, engines or industries into the atmosphere.

Thanks to the extension of the accreditation scope obtained recently, the Centre produces certified traceable gas mixtures with methane matrix, reproducing the composition of natural gas; containing sulfur compounds and natural gas odorants; for controlling refinery gases; containing ethyl alcohol for calibrating alcohol testers; for controlling the water concentrations in gases. In addition, the LAT Centre is accredited according to ISO 17025 for calibrating equipment for analytical measurements, gas chromatographs and analyzers.

Traceability

Property of a measurement result whereby the result can be related to a reference through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty.



A traceable process guarantees that the results of measurement are comparable, in one or more steps, with the national or international reference sample. The traceability offered by SIAD, LAT and RMP Centre provides international recognition of measurements, with the ability to effectively compare the measurements with other laboratories.



Gas mixtures

SIAD is a leading supplier of gas mixtures used in the most widespread industrial and research fields. SIAD's mixtures, prepared from high-purity components, are produced by Research and Specialty Gas Laboratories according to strict standards of safety, precision and quality, using technologically advanced mixing systems. Each year SIAD produces and analyses tens of thousands of gas mixtures.

Thanks to a complex and diverse range of instruments and with the aid of skilled and competent personnel, SIAD Laboratories are able to prepare gas mixtures which may be comprised of from 2 to over 70 components.

The main types of gas mixtures SIAD offers and their respective areas of application are summarized in *Table 1*.



Type	Description	Use
CALIBRATION	Liquid-phase mixtures based on hydrocarbons	Calibration and operation of equipment in the chemical and petrochemical industry
	Mixtures for environmental monitoring	Calibration of equipment for controlling emissions into the air
	Mixtures for monitoring exhaust gases	Calibration of equipment for controlling car exhaust gases
	LAT calibration mixtures	Calibration or testing of analytical measurement equipment
MIXTURES FOR OTHER APPLICATIONS	Mixtures for analytical measurement equipment	Calibration or testing of analytical measurement equipment that requires binding measurement performance
	Sterilant mixtures	Sterilization of disposable medical devices
	Laser mixtures	Laser machining (assist and laser gases)
	"G" mixtures for burner calibration	Calibration and testing of burner operation
	Biological mixtures	Cell culture treatment in controlled atmosphere
	Mixtures for the electronics industry	Semiconductor doping, etching of surfaces, epitaxial growth of silicon ion implantation
	Kill gas (mixtures based on carbon monoxide)	Reduction reactions in steel-making, separation and purification of metals (nickel), microelectronics
	Mixtures for detecting leaks	Detection of gas leaks in systems and piping
	Mixtures for diving	Breathing underwater and in hyperbaric chambers
	Mixtures for lighting	Lamps
	Mixtures for the metal industry	Degassing aluminium, thermal treatments
Mixtures for degreening	Degreening fruit	
OTHER	Express Gas Mixtures	Stock calibration mixtures, available in 3-5 days
	Mixtures in Lightcyl disposable gas cylinders	Testing single safety devices and monitoring work environments; calibration of gas analyzers

Table 1 - Main types of SIAD mixtures and sectors of use

Calibration gas mixtures

SIAD's calibration gas mixtures are distinguished by their family, filling procedures and certification classes. The two families are: gas-phase mixtures and liquid-phase mixtures.

The gas-phase mixtures and liquid-phase mixtures have different classes of certification:

- “Standard” certified gas mixtures;
- “High Precision” certified gas mixtures;
- Certified gas mixtures in accordance with customer specifications.

The gas-phase mixtures are divided according to the following filling and certification procedures:

- batch certification:
 - with analytical certification;
 - with gravimetric certification.
- certified individually:
 - with analytical certification according to ISO 6143;
 - with gravimetric certification according to ISO 6142;
 - with double gravimetric and analytical certification.

The liquid-phase mixtures are divided according to the following certification procedures:

- certified individually:
 - with analytical certification;
 - with gravimetric certification;
 - with double gravimetric and analytical certification.

The mixtures can be prepared in accordance with SIAD internal procedures or agreed with the customer.

The analysis can be carried out using SIAD standards or metrological reference mixtures. An additional class is defined by the LAT mixtures, produced in accordance with preparation and analysis procedures accredited by Accredia that, therefore, are metrologically valid.

These procedures can be used to prepare and certify only the gas concentrations included in the accreditation scope.

Gas-phase mixtures are produced in high-pressure cylinders, while liquid-phase mixtures can be prepared in high-pressure cylinders or in piston cylinders.

These are containers that keep a constant pressure in the vessel while tapping the mixture, providing better stability for liquid-phase gas compositions. After identifying the family of the mixture, the user can choose between different classes to define the best tolerance and uncertainty for their purposes.



The tables below indicate the classes for the values of tolerance and uncertainty offered by SIAD.

CLASS OF CERTIFICATION	COMPONENT CONCENTRATION							
	0,1 ppmvol	1 ppmvol	10 ppmvol	100 ppmvol	1000 ppmvol	1 %vol	10 %vol	50 %vol
High Precision certified gas mixture	20%	10%	10%	5%	5%	3%	2%	1%
Standard certified gas mixture	40%	20%	20%	10%	10%	10%	5%	2%

Table 2 - Preparation tolerance

CLASS OF CERTIFICATION	COMPONENT CONCENTRATION							
	0,1 ppmvol	1 ppmvol	10 ppmvol	100 ppmvol	1000 ppmvol	1 %vol	10 %vol	50 %vol
High Precision certified gas mixture	6%	4%	2%	1%	1%	1%	0,5%	0,3%
Standard certified gas mixture	10%	6%	5%	2%	2%	2%	1%	0,5%

Table 3 - Certification uncertainty

Sterilant gas mixtures

SIAD supplies mixtures based on ethylene oxide used for sterilizing disposable medical devices.

Ethylene oxide has biocidal properties, in other words it can kill micro-organisms such as viruses, bacteria, spores, moulds and fungi; in particular, it is ideal for being used in thermolabile products that cannot be sterilized by using heat or steam.

In addition, it has the advantage of having little impact on materials: it does not alter their appearance and, in the case of plastics, it preserves their transparency.

Ethylene oxide is currently used by companies in the bio-medical sector which produce sterile disposable plastic equipment for haemodialysis, heart surgery, autotransfusion, plasmapheresis, blood filtration, dressing and so on.

This gas is usually marketed mixed with carbon dioxide.

Depending on the products to be treated, the sterilization cycles may have some differences related to the operating parameters:

- temperature;
- duration of treatment;
- concentration of gas and pressure in autoclave;
- humidity.



As a result, starting with the specific requirements of the treatment, it is possible to choose between different types of mixture. The sterilant mixtures produced and marketed by SIAD are available with different percentages of carbon dioxide and ethylene oxide (both grade 2.5), as shown in *Table 4*.

SIAD is the only manufacturer of gas mixtures based on ethylene oxide in Italy and ranks among the leading suppliers in Europe.

Mixture Composition	% Carbon dioxide (2.5)	% Ethylene oxide (2.5)
SIADTOX 10	90	10
SIADTOX 12	88	12
SIADTOX 15	85	15
SIADTOX 20	80	20
SIADTOX 85	15	85
SIADTOX 90	10	90

Table 4 - Compositions of SIAD sterilant gas mixtures

Liquid and gaseous helium

Helium is the second lightest gaseous element, after hydrogen; it is characterised by being the smallest molecule and the chemical element with the lowest boiling point.

Applications

In both gaseous and liquid form, helium finds many applications:

- metal working sector;
- aerospace industry;
- semiconductor production;
- electronics industry.

In particular, liquid helium is used to obtain temperatures very close to absolute zero in many high-tech industry, research and medical sector applications, such as superconductivity, particle acceleration and MRI diagnostics. Other major uses of helium include:

- production of optical fibres for telecommunication systems;
- use in chemical processes, as carrier gas in gas chromatography;
- as leak detector medium in pressurised and vacuum systems and piping;
- artificial respiration in deep sea diving.



Supply mode

Helium supply mode and range of available services:

- transport in cylinders and cylinder bundles in gaseous form, in dewars in liquefied form;
- design and installation of gas distribution systems;
- supply of equipment for the proper utilisation of the gas;
- technical assistance and advisory service on gas transport, distribution and uses.



Pure and cryogenic gases

SIAD has been producing and selling pure gases since the early 30's, when the first two research laboratories specialized in these products were founded.

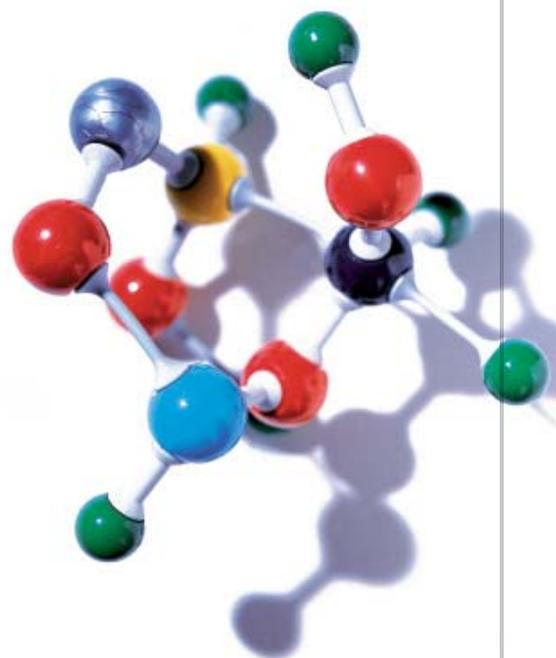
Thanks to the experience and skills acquired in over 85 years of business, SIAD plays a leading role at national and European level and also stands out for its exclusive products, such as carbon monoxide and ultra-pure oxygen (grade 6.0). SIAD's pure gases are intended for laboratories and industries: the production and analysis methods used to prepare them ensure the greatest repeatability of results during use.

SIAD's pure gases have a purity of up to 99.9999% (grade 6.0) and their chemical and physical characteristics remain constant over time.

Cryogenic gases

The cryogenic gas that is used most widely by hospitals and industrial plants for research and analysis purposes is liquid nitrogen, an inert gas with a boiling point at normal atmospheric pressure of $-196\text{ }^{\circ}\text{C}$. Here are some of the common uses of liquid nitrogen:

- cryobiology;
- dermatology;
- preservation of tissues, semen, plasma, etc.;
- MRI;
- laboratory instrumentation (electronic microscopes, gas chromatography, etc.);
- research.



Purity class	Laboratory applications	Industrial applications
From 2.0 to 4.5 Technically pure gases	<ul style="list-style-type: none"> - Research work - Analyses - Standard gases - Flame spectrophotometry 	<ul style="list-style-type: none"> - Synthesis and polymerisation - Catalysis and catalyst regeneration - Chloridation, hydrogenation, reduction - Inert and controlled atmospheres
From 4.7 to 5.0 High purity gases with constant chemical-physical properties, for widespread use	<ul style="list-style-type: none"> - Research work - Analyses, microanalyses - Gas chromatography: <ul style="list-style-type: none"> - flame ionisation - helium ionisation - thermal conductivity - Spectrography, spectrophotometry - Quantometry - Atomic absorption - Inductively coupled plasma (ICP) 	<ul style="list-style-type: none"> - Chemical synthesis - Catalysis - Lamp manufacture - Heat treatments - Extra controlled atmospheres - Laser
5.5 Extreme purity gases, fine-tuned in collaboration with the electronics industry	<ul style="list-style-type: none"> - Studies and research - Microanalyses - Elementary organic analyses - Electron-capture gas chromatography - Supercritical extraction 	<ul style="list-style-type: none"> - Electronics (semiconductors, epitaxial techniques) - Single crystal growth - Metallization furnaces - Optical fibre production - Solar cell production - Lamps
6.0 Extreme purity gas earmarked for the most highly sophisticated applications	<ul style="list-style-type: none"> - Research work - Mass spectrometry - Standard gases 	<ul style="list-style-type: none"> - Electronics

Table 5 - Main applications of SIAD pure gases

Process gases

Rare gases

The rare gases, which include xenon, krypton and neon, are present in the air in very low concentrations.

Rare gases play a major role in many sectors, in that, when electrically charged they give out light; they are used in lighting fixtures and lasers, for medical imaging applications and by research laboratories. They are also used in the production of thermally insulated windows.



One of the very few European producers of carbon monoxide, SIAD can also supply this gas in ultra-pure form.

Toxic gases

The main toxic gases are hydrobromic acid, hydrogen chloride, hydrogen sulfide, sulfur dioxide, chlorine, carbon monoxide, ethylene oxide. Toxic gases are viewed by SIAD as a distinctive element in its production line-up.

Ammonia (NH₃)

Ammonia is a colourless, slightly flammable, toxic, corrosive, liquefied gas with a pungent odour. It is typically used in combination with silane or dichlorosilane to form silicon nitride layers in chemical vapour phase deposition processes. Silicon nitride films are used as passivation and dielectric layers in semiconductor devices.

Carbon monoxide (CO)

Carbon monoxide, CO, is a valuable chemical intermediate, used widely in the production of numerous chemical compounds, such as, for instance, polyurethanes and polycarbonates. Carbon monoxide is also used:

- by steel mills, as a reducing agent;
- in metal separation and purification processes, especially for nickel;
- in microelectronics applications (requiring higher purity levels);
- in environmental monitoring and process control mixtures.

Hydrogen chloride (HCl)

Hydrogen chloride is a colourless, poisonous, highly toxic, corrosive, non flammable liquefied gas with a pungent odour. It is used to polish and etch wafers prior to the deposition process.

It is able to remove from the surface of the wafers the defects caused by mechanical polishing and handling. Combined with small percentages of oxygen, it is also used as a sequestering agent to remove metallic impurities which may have detrimental effects in the production of MOS (Metal Oxide Semiconductor) type devices.

Other process gases

Nitrous oxide (N₂O)

Nitrous oxide is a colourless, oxidiser, liquefied gas with a slightly sweet odour and taste.

It is used as an oxygen source in the vapour phase deposition of silicon oxide films.

This gas, available in liquid form, is a powerful oxidising agent at temperatures of over 300°C. Nitrous oxide is also used to remove photosensitive resins employed in photolithography processes.

Sulfur hexafluoride (SF₆)

Sulfur hexafluoride is a colourless, odourless liquefied gas, with high relative density.

It is stable in normal conditions, but through thermal decomposition it may form toxic products that may be corrosive in the presence of humidity. It is widely used as an insulating material for switches, switchgear, high voltage electrical substations and gas-insulated transmission lines.

When used in this sector, sulfur hexafluoride must conform to ASTM D 2472-00 or IEC 376/60376 standards. It is also used in the electronics industry as a plasma etchant gas and as a cleaning agent for etching chambers.

Supply modes and services

Supply services

SIAD is present in Italy and in the rest of Europe with a strategically located production, distribution and sales network.

SIAD guarantees the most reliable type of supply according to the production and logistics needs of each single user, with a vast range of gas cylinders, as well as numerous containers for liquid-phase gases. Flexible and customized, SIAD's supply solutions are differentiated according to the required quantities of gas or mixture.

LIGHTCYL

Disposable gas cylinders

Where small amounts of gas are required and when, at the same time, it is important that the gas mixture supplied is of a guaranteed purity or certified accuracy, disposable LIGHTCYL as gas cylinders offer the perfect solution.

The LIGHTCYL line can be used wherever the requirement for ease of handling and simplicity in use is essential.

It is, above all, particularly well suited for use by the safety sector, for environmental monitoring and in laboratories.

Gas mixtures, which are flammable, oxidising, atmospheric gases, and a wide range of pure gases are available.



Analytical Assistance Service

SIAD created its Analytical Assistance Service (SAA) to offer its customers a valid and effective support in gas analyses.

The service is entrusted to specialist technicians who use highly sophisticated instruments and equipment to perform on-site analyses of the gases or take samples which are then analysed at SIAD's Central Laboratory.

The main services offered are:

- Process gas analyses;
- Environmental analyses in operating rooms;
- Assistance with the utilisation of calibration mixtures;

- Training courses on the analysis of gases and gas mixtures;
- Gas analyser functionality checks;
- Advisory services on gas analysis instrumentation.

The Analytical Assistance Service is made possible by SIAD's long-standing experience and know-how concerning the production of calibration mixtures and advanced gas analysis systems.



The SIAD Group

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Industrial gases



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Healthcare

Industrial gases

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