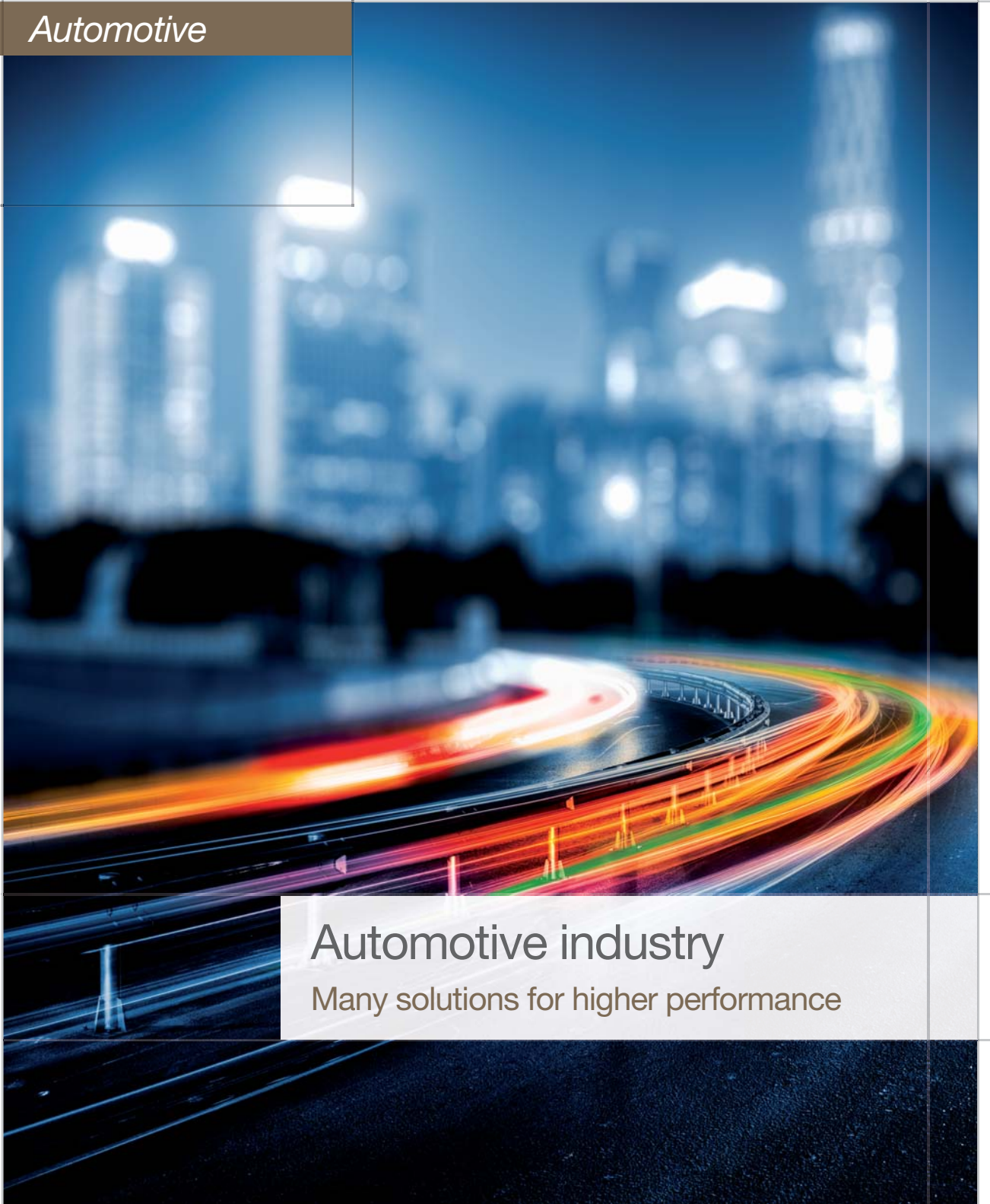


Automotive



Automotive industry

Many solutions for higher performance

Gas mixtures for welding and automatic plants

Gas mixtures for welding

With over **25,000 clients** in the metal working and **1,000 clients** in the high powered laser cutting sector, SIAD is leader in the Metal Fabrication industry thanks to a wide range of gases and mixtures.

A background of more than 85 years in the Metal Fabrication sector makes the SIAD Group a point of reference.

Stargas® is a dedicated line of pure gases and mixtures and a result of the research and the experience gained in over 85 years in welding operations.

Stargas® line products and connected advantages are:

Helistar HP1

82% Ar + 3% CO₂ + 15% He

- free of surface defects;
- good regularity of mail;
- silicon remains are greatly reduced in size and quantity.

Argon Q

100% Ar

- reduced surface oxidation;
- reduced inclusions due to the presence of impurities.

Stargon PB

95% Ar + 3% CO₂ + 2% O₂

- spray reduction;
- better arc stability.

SIAD also offers to the customers:

- consulting;
- training, for a safely and effectively use of the products.



EasyCleaner®

The EasyCleaner® kit consists of an **innovative device** and a **special mixture** for the MIG/MAG welding torches cleaning.

Advantages

- Quick action and easy use;
- better operator safety;
- increased service life of consumables;
- better work environment;
- absence of oxides;
- reduced seizing.

Easy Cleaner

Italargon Division: automatic plants for welding

The SIAD Group Italargon Division provides its customers a laboratory with robotised cells, equipped with various welding processes (MIG/MAG, TIG with wire, PLASMA with wire, PLASMA cutting, laser), to perform welding tests, with certified operators EWP. The high quality of its welding plants is due not only to an experience which spans

more than 50 years in the sector but, above all, to its ongoing commitment to research and development of new solutions. Supplying a plant goes beyond mere engineering to having an in-depth knowledge of welding processes in order to offer clients the ideal solution for the automation of their manufacturing systems.

Italargon Division offer:

- manipulators and positioners;
- metal plate clamping systems;
- dedicated plants to specific application.

SIAD MACCHINE
IMPIANTI
ITALARGON DIVISION

Calibration mixtures and services

Calibration mixtures

SIAD offers **certified mixtures for emission control** in test benches and for equipment calibration, which comply with the rules required to provide a more precise and detailed test.

The SIAD Research Laboratory obtained the accreditation as **LAT Calibration Centre No. 143** since 2001 by ACCREDIA. In accordance with **ISO/IEC 17025**, LAT Centre No. 143 can produce:

- gravimetrically calibrated gas mixtures according to **ISO 6142** and verified analytically; these are the ACCREDIA traceable mixtures G-CRM and W-CRM;
- gas mixtures calibrated analytically by comparison with other traceable samples of the Centre in accordance with standard **ISO 6143**; these are the traceable mixtures A-CRM.

In accordance with **ISO GUIDE 34**, LAT Centre No. 143 can produce Certified Reference Gas Materials (CRM). These are gas mixtures produced gravimetrically and analyzed for which the Centre can ensure and declare on the certificate the stability.



SIAD LAT Centre No. 143 is able to guarantee the traceability of the measurements performed and certified that are internationally recognized.

SIAD LAT Centre No. 143: more than 20 years experience in the preparation and analysis of metrological related mixtures.



Platinum Total Gas Management

Platinum TGM is an **integrated product management service**: all the aspects relating to **supply, transport, purity, maintenance and safety** in the use of gases and related systems are left completely up to and in the hands of SIAD. In this way, SIAD experience, flexibility, reliability and professionalism are available

to its customers, who can then focus all their activities on their core-businesses.

The **benefits** of using this type of service are **lower management costs and better production performance**.

Moreover, SIAD designs and builds “turnkey” gas distribution plants based on quality and safety standards

in order to guarantee:

- gas;
- system performance;
- lower maintenance costs.



Other applications and gases

Heat treatments protective atmospheres

Protective and control atmospheres are the **most important factors** in metals and material **processing** operation.

As supplier of gases for protective atmospheres - N₂, Ar, He, H₂, NH₃ - as well as other types of protective atmosphere systems, SIAD can provide practical solutions for different heat treatments and also specific training related to safety use of gaseous atmospheres (inert or flammable). Our specialized team can evaluate, design, install and start-up systems that meet customer's requirements.



Each project is customized to improve quality, flexibility and cost savings.

MAIN HEAT TREATMENTS	PROTECTIVE ATMOSPHERES
Carburizing, neutral hardening and carbonitriding	Endogas, Ammonia, Nitrogen
Low pressure carburizing	Acetylene, Nitrogen
Back-filling vacuum furnaces	Nitrogen, Argon
Sub-zero treatment and shrink fitting	Liquid Nitrogen
Sintering	Nitrogen, Hydrogen, Endogas
Autoclave operation - composite material production	Nitrogen, Air, mixture of Nitrogen and Air

Refrigerant gases

SIAD proposes:

ASHRAE code	Composition	ODP	GWP
R-1234f (HFOs)*	CF ₃ CF = CH ₂	0	4
R-134a (HFCs)	CF ₃ CH ₂ F	0	1430

*In accordance with the European legislation (DIRECTIVE 2006/40/EC (MAC)) concerning the environmental impact of refrigerant gases for automobile A/C.

Furthermore, SIAD offers **natural refrigerant gases**.

Secur Pneus®

Secur Pneus® is a mixture of **inert gases** free of oxygen and moisture present in the atmosphere and oil vapor generated by air compressors.

Advantages

- Maintenance of the operating pressure;
- vehicle manageability;
- braking adherence;
- aquaplaning control;
- stability.

Cryo cleaning

Used along all the automotive supply chain, the cryo cleaning is the most effective and environmentally sustainable system to increase productivity and reduce production costs.

Advantages

- Faster and more effective than traditional methods;
- increased productivity and reduced labor cost;
- increased operator safety;
- non abrasive process.

SECUR
PNEUS

The SIAD Group

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

The Group has been involved in the business of industrial gases for more than 85 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. These range of activities are 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 on the SIAD Group: www.siad.com

Values



Experience, Tradition and Strength



Reliability, Trustworthiness and Competency



Research, Technology and Innovation



Geographical and Sector Diversification

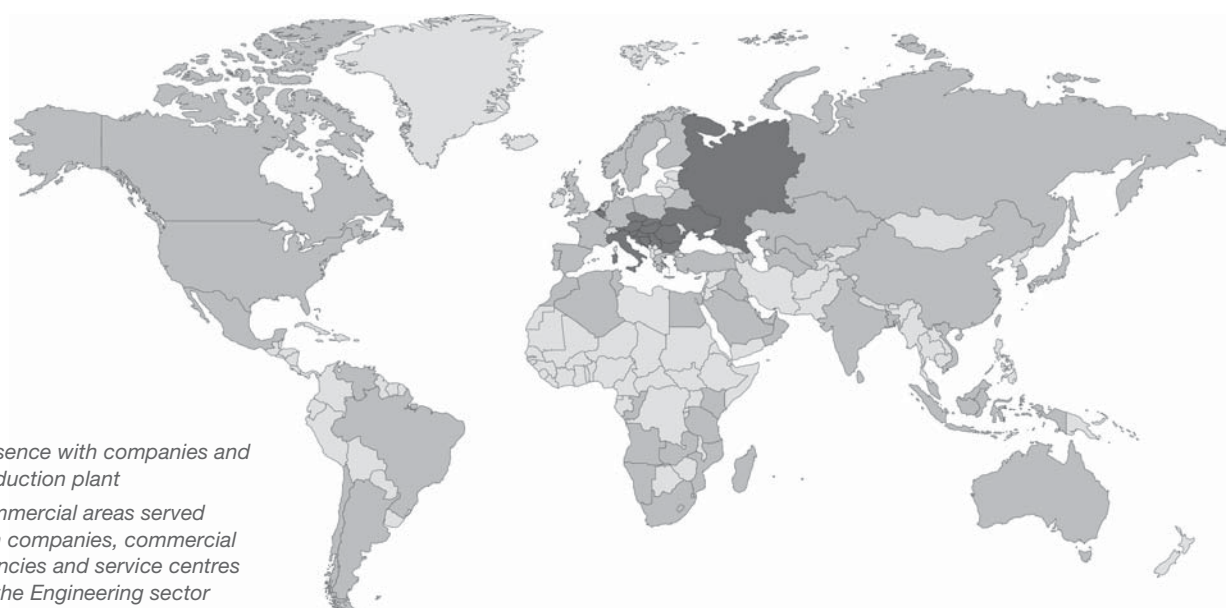


Commitment to Quality, Safety and the Environment

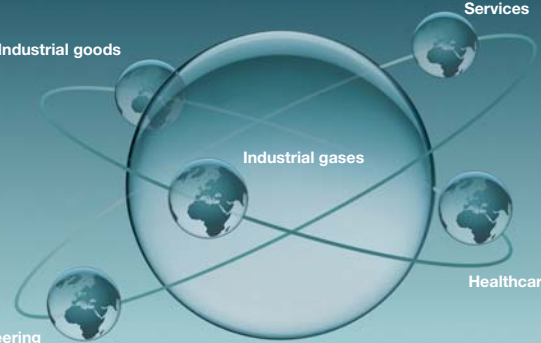


Attention to Social and Cultural Issues

The SIAD Group in the world



The SIAD Group



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