NITROGEN *ON-SITE* GENERATION SYSTEMS

For METALLURGIC PROCESSES

INDUSTRIAL

Nitrogen is the most suitable gas for oxygen removal (inertization), fire triangle break and fire or explosions prevention. In the Metal-mechanics industry, Nitrogen is mainly used on the following processes:

- **INERTIZATION**
- **FOUNDRY**
- **ALUMMINIUM EXTRUSION**
- **HEAT TREATMENT**

Nitrogen is used to protect metals, such as steel, copper or aluminum. Therefore, it assumes great importance on operations that take place at high temperatures, on annealing furnaces, carbonization, nitriding, carbonitriding, steel hardening or plasma support. It is also used as a purge gas in welds of stainless steel tubes.

Being a very effective inert gas, Nitrogen is used on the aluminum industry to reduce the formation of oxides. Nitrogen provides an atmosphere in which oxide formation is inhibited, improving surface quality and appearance and allowing a higher extrusion speed, which increases production capacity without increasing the number of extruders.



PROCESS	REQUIRED PURITY
INERTIZATION	99,00%
ALUMINIUM EXTRUSION	99,00%
FOUNDRY	99,99%
HEAT TREATMENT (<700°C)	99,50%
HEAT TREATMENT (<700°C - 900°C)	99,90%
HEAT TREATMENT (>900°C)	99,99%





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ON-SITE NITROGEN GENERATION SYSTEMS with PSA Technology

If your process requires large or small quantities of Nitrogen, **SYSADVANCE** can offer you the most suitable solution, considering the technical details, savings, improvement of product quality, increase of productivity and consequent increase of your turnover. **SYSADVANCE** generators present themselves as a reliable, economical and efficient solution for Nitrogen supply at a low cost.

Please contact us or our local distributor, or send us your information request to **info@sysadvance.com**. More information available at **www.sysadvance.com**.





QUALITY CONTROL CARRIED OUT ON NITROGEN PRODUCED BY NITROGEN GENERATORS

The Nitrogen produced by **SYSADVANCE**'s Nitrogen range generators is subjected to rigorous quality control tests in the factory, using calibrated measuring equipment and analytical methods suitable for the industry, in order to guarantee that the gas meets the specifications defined by the legislation.

The results obtained are duly recorded in a report, which is sent to the client together with the equipment documentation.

SYSADVANCE also offers its customers the service of periodically monitoring the specifications of the Nitrogen produced by the Nitrogen range of generators already installed and in operation.

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