



FERRONOVA® process support takes total responsibility for your process

With long experience of gas and furnace applications, we at FERRONOVA® process support can offer a wide range of services and service packages. We have a unique competence in the field of heat treatment all in one place - a competence that we also want our customers to benefit from. We will happily take total responsibility of your process. A service agreement with us means that you do not need to invest in your own resources to obtain a more profitable and operationally-secure process. We carry out preventative process services at regular intervals, which are a prerequisite for continuous, problem-free operation.

In addition, we are always available if you need to ask your contact person questions about your process, equipment, or gas supply. All so that you, our customer, can gain as profitable and safe a heat treatment process as possible.

Process service with service agreement

A preventative process service should be done once or twice per year. This includes a total review of the functions in your heat treatment process, an analysis of the measurement results, and a proposal of what can be improved. The details of our assessment can then be used directly in your own QA documentation.

Remedial process service

You can also choose to include a remedial process service in your agreement with us. This can have the same scope as the preventative process service, but is carried out as and when you wish.

All input elements in a service program are documented and given to you within three weeks for approval. Upon completion of a service, there is also a verbal report given by your contact person.

Extranet

The FERRONOVA® process support extranet at www.ferronova.se gives you quick and simple access to the combined knowledge of heat treatment processes, directly online. Here you'll find easy-to-use calculator tools, enabling you to improve your process, information on safety regulations, risks, and equipment, plus a glossary and events diary. As a member, you also have a personal section, where you can access your own service reports and agreements online.

System service

- Overview of the gas distribution system
- Checks include flow, furnace pressure, membrane, and filter
- As required, we can adjust or exchange components to ensure and optimize gas usage

Temperature check of furnaces

- Checking thermocouples and regulators.
- Measuring temperature uniformity
- Temperature profiles in continuous furnaces
- Adjustment/exchange of parts will be discussed with the purchaser

Accredited measurements

- Accredited as per SS/EN 17025
- The accreditation includes NO, NO₂, CO, CO₂, O₂, CH₄, temperature, and calculation of carbon potential

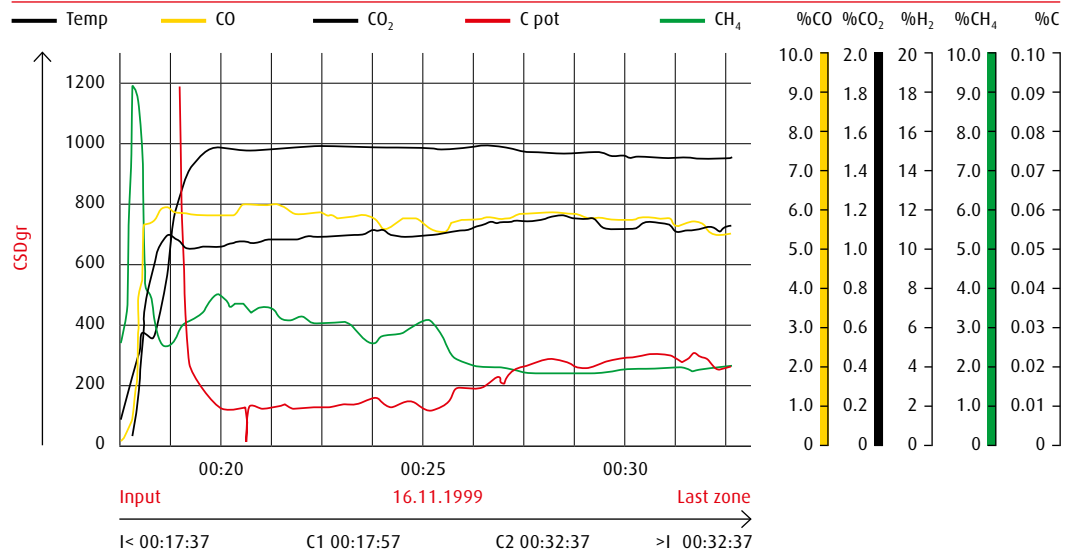
Calibration of furnace atmosphere

- Important parameters for furnace calibration are CO, CO₂, and CH₄ levels. Measuring these provides the basis for calculating how the carbon potential varies during the process
- Measuring the H₂, O₂ and the dew point are important in reducing or inert atmospheres
- For customers working with nitriding and nitrocarburizing, we can offer analysis with an FTIR instrument to measure NH₃ and H₂O as well as calculating the carbon potential
- The furnace analysis is compiled in diagrammatic format and can be used in QA documentation

Analysis of oils

- IVF Quenchotest, the quick test for measuring quenching oils' cooling ability.
- A chemical analysis involves measuring the viscosity, water content, ignition point, and particle density.

Temperature and Atmosphere Profile



FERRONOVA® process support

FERRONOVA® process support
– partner for the metallurgy industry.

Visit our website: www.ferronova.se

Contact details

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ISO/IEC 17025

AGA Gas AB/FERRONOVA® is a SWEDAC
accredited measuring laboratory, no. 1839.