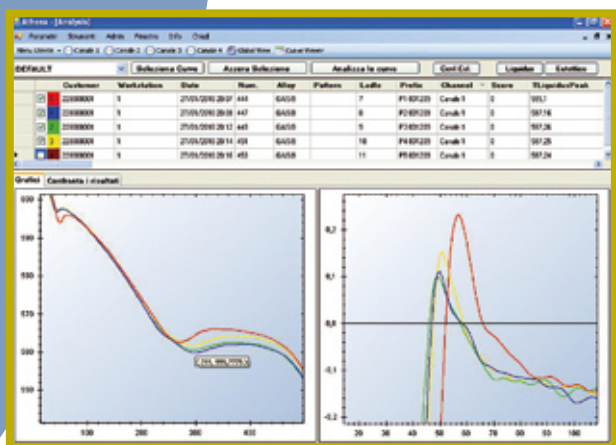


ATHENA is the new thermal analysis Software for aluminum, developed by ProService and tested in many foundries. Thanks to the use of the most advanced Information Technology, with few clicks and in a few minutes ATHENA gives an estimation of the structural characteristics of the metal, analyzing and saving in real time the cooling curves and offering to its users some powerful tools of analysis, at higher levels of competence.

Its main features are:

ACQUISITION INTERFACE:

A user friendly Software, that is intuitive and easy to learn to use, and gives easily understood output to the operator. ATHENA can analyze the metal in the different phases of the process, with an unlimited amount of independent channels, for complete monitoring of the melting plant.

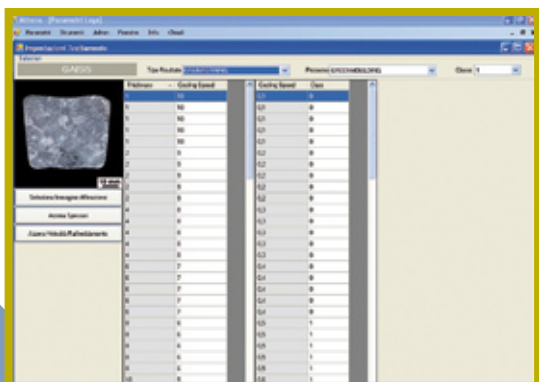


GRAIN REFINING AND MODIFICATION ANALYSIS:

Immediate forecasting of the level of grain refining and modification, with references to macrographs and micrographs. Interpretation of the result is easy, even for the less experienced personnel!

CASTING LOGIC:

ATHENA adapts to the production of your foundry, with personalized analyses for different kinds of castings. It is possible to create a list of your actual castings and, for each one, ATHENA will prepare a calibrated and specific analysis, adapting to your needs.



ATHENA

Aluminum Thermal Enhanced Analysis

AUTOTUNING:

ATHENA is a tool in tune with your foundry. The different indicators can be calibrated to suit your production, in order to have an estimation of grain refining and modification not only referred to the “alloy AlSi7”, but rather it will concern the “alloy AlSi7” produced in the foundry “XYZ”, used to pour the casting “abc”. This is possible thanks to a specific module that will calibrate your ATHENA easily, automatically and intuitively.

SPECTROMETER AND OTHER TOOLS:

ATHENA was born also to communicate. The Software can interact with all the other tools/databases in the foundry, becoming the main “active” data recipient. In fact, the ATHENA SQL SERVER database will not be a simple backup copy of the process data, but it will reuse them to execute new calculations (ALLOY2000 for the calculation of the density, the Fourier analysis for the determination of the solid fraction curve, the chemical composition from spectrometer for the forecasting of mechanical properties, etc...) and to prepare more and more sophisticated reports.

MAPPING FOR THERMAL TREATMENT:

The thermal parameters calculated by ATHENA can be used as input data to identify the best thermal treatment curve.

