



ANALYTICAL INSTRUMENTS GROUP

MiniLab



S3 MINILAB

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S3 MiniLab

ULTRACOMPACT OPTICAL EMISSION SPECTROMETER

S3 MiniLab is the newest Spark Emission Spectrometer designed by GNR to celebrate its 30th year of operation. Nowadays MiniLab instruments are ones of the smallest and lightest compact optical emission spectrometers available on the market with outstanding analytical results in this category.

S3 MiniLab Spark Emission Spectrometer combines easiness of use, low maintenance cost, affordable price with the most advanced technological optical and electronic components.

S3 MiniLab is a Multi Matrix spectrometer for Ferrous Alloys, Aluminium alloys and Copper alloys.

Thanks to its innovative optical design, S3 MiniLab is the only spectrometer of its class to mount up to 7+1 high resolution CCD with 3.648 elements to ensure the best spectral resolution (< 10pm).

S3 MiniLab with its extended analytical range from 165 up to 700 nm can cover almost all the analytical requirements of a modern foundry, but not only.

The innovative argon purged optic, with an argon consumption of 10 l/day only, ensures the maximum light transparency even in UV region at a negligible cost.

Technical Data S3 MiniLab

Optical System

Multi High Resolution CCD system with up to 7 +1 CCD solid state detectors depending on required applications.

Spectral Field: 130 to 700 nm - High Luminosity Holographic grating with 3600 grooves per mm. 400 - 700 nm extended range with additional CCD.

Focal length 300 mm for all optical systems.

Argon purged optical chamber with Proprietary Low Consumption Argon Device.

Stabilized against fluctuations in temperature.

Special material for drift free.

Source

Full automatic controlled source.

Solid state spark source semiconductor controlled.

Software

MetalLab32 software, operating in Windows environment is very easy to be used. The operator can really use all spectrometer's function. Some of the most important functions are listed: Analysis-Automatic standardization. Printing and management of certificates. Determination of alloys in accordance to international norms (UNI, ASTM, DIN) Network linking and remote control.

Other Information

Personal Computer (optional): Intel Core Processor 4 Gb Ram, 320 Gb HD 7.200 rpm Combo DVD + DVD RW, Monitor 19" LCD, mouse, keyboard and HP Deskjet printer.

Power Supply 110/220 V AC 16 A 1 KW

Dimension and Weight 26x73x62h cm / 80 Kg.

Single Sample Standardization

MiniLab spectrometers are equipped with software able to standardize the machine with just one single sample for several bases.

This innovation technique allow MiniLab to reduce dramatically not only the timing of the accuracy settings but also to minimize the cost of the samples replacing the adoption of several samples for the different bases with one single sample.

Local Agent



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