ferro.lyte®

Spark OES metal testing.
As precise as a laboratory instrument.
As mobile as a handheld.

High data quality

Lightweight

Cloud service

Extreme durability

elementar
EXCELLENCE IN ELEMENTS

ferro.lyte

Precise metal testing.
Anywhere. Anytime.

KEY FEATURES

- Fast, reliable metal testing and identification (PMI) on-site
- Lightest and most compact OES of its kind thanks to the innovative all-in-one concept
- Intuitive user interface for fast navigation through instrument settings and workflows
- Clear, bright touch screen, easy to read even in difficult lighting conditions
- Nitrogen analysis in duplex
- Easy data export via USB, WLAN, LAN or Bluetooth
- lytic**OS**® cloud for comfortable data processing

ferro.lyte convinces with innovative ideas and easy, intuitive handling. The unique design is optimized for flexible, safe and reliable analysis of metal alloys on-site. The exclusion of atmospheric influences through the CONLYTE® technology (filled as a patent) enables on-site analyses in laboratory quality.

As precise as a laboratory instrument

ferro.lyte is the lightest mobile OES spectrometer available. It offers the most flexible, precise and cost-effective analysis method for determining the elemental composition of metals and their alloys. The advanced and unique design is optimized for customers who expect fast and precise analysis of chemical elements in laboratory quality, even in environments that are difficult to access.

Flexible multi-matrix system

Within a few seconds, ferro.lyte precisely determines the elemental composition of a wide variety of metals – even of alloying elements with a low atomic number, which are not detectable or only partially detectable for conventional handheld devices. Fe alloys as well as the elements Li, Be, B, C, Mg, Al, Si, P, S, Ca and N in duplex steel are determined quickly and reliably.

IDEAL SOLUTION FOR

- Fe alloys
- Stainless steel (L / H Grades)
- Alloying elements with a low atomic number: Li, Be, B, C, Mg, Al, Si, P, S, Ca
- Duplex steel
- Al, Cu, Ti, Ni alloys

ANALYSIS OF ALMOST ANY SAMPLE TYPE

A laminar argon flow (gas lens principle) around the electrode protects the plasma from atmospheric ingress. Samples with concave or convex surfaces can be safely analyzed. For more complex geometries, small parts, wires, etc. additional adapters are available.

Revolutionary operation

The intuitive design of the ferro.lyte user interface lytic**OS** allows quick navigation through device settings and workflows. Thanks to the Optical Bonding technology, the clear and bright touch screen can be read at any time, even in difficult lighting conditions. The comprehensive, pre-installed alloy library for fast alloy identification can be easily updated directly within the software and extended by country-specific standards. Data export via USB and data transfer to the powerful lytic**OS** cloud simplify further processing of the measuring results and enable unsurpassed reporting at all times.

Ready to use – anywhere, anytime

ferro.lyte is designed for cordless use. The compact, lightweight system is particularly advantageous for ad-hoc analyses and environments with hard-to-reach testing areas. The interaction of the integrated high-performance battery with the intelligent battery management makes ferro.lyte with over 800 measurements your reliable partner for an entire working day – at any location.

NITROGEN ANALYSIS IN DUPLEX

Elementar's innovative CONLYTE technology significantly improves analytical performance for nitrogen in duplex. In addition, the long-term stability for the measurement of phosphorus, sulfur and boron is increased.

In contrast to conventional systems, ferro.lyte uses an extended wavelength range for the determination of the nitrogen content that was previously only reached by laboratory instruments. The extension of the spectral line range is achieved by the unique CONLYTE technology developed by Elementar (filled as a patent). Thanks to the CONLYTE technology, the air gap between the light channel and the plasma, which is common in mobile spectrometers, is completely sealed from the atmosphere. Atmospheric changes therefore cannot influence the measurement signal – a prerequisite for permanently reliable analysis results.

Always there for you. Service & support from Elementar.

It is important to us that you remain satisfied with our products and services. This means that we are not only at your side during the buying process, but also support you in the long run with our qualified services – because the best possible analysis performance and maximum system uptime increase sample throughput and reduce costs.

ferro.lyte has a very reliable and robust design – but daily use in the toughest working environments can lead to failures. In this case, you can always rely on the experienced support of our worldwide service network to ensure that your instrument works optimally again as quickly as possible.

IMMEDIATE SUPPORT BY REMOTE DIAGNOSTICS

In industrial production, uninterrupted operation is key. That's why you can rely on us for advice and immediate support from our telephone customer service. Thanks to our lytic**OS** cloud, error messages can be read and interpreted remotely to restore optimum condition as quickly as possible.

CERTIFICATION FOR RELIABLE RESULTS

Make sure that your ferro.lyte is optimally calibrated and thus always delivers reproducible and reliable results. Our service team performs the analytical verification of the calibration with recognized reference materials for you. After passing the test, you will receive a certificate attesting the correct calibration as auditable proof.

TECHNICAL CUSTOMER SERVICE FOR ALL PURPOSES

Our worldwide service network is always there for you. We offer tailor-made maintenance and repair services as well as certified consumables and spare parts. In addition, our application experts are at your disposal to provide your employees with the necessary knowledge about the use of the instrument.

MAINTENANCE FOR BEST PERFORMANCE

Regular maintenance increases the system's uptime and also the lifetime of your ferro.lyte. Therefore we offer special maintenance packages. In addition to the increased sytem uptime of your instrument, you also benefit from reduced repair costs and better predictable operating costs.

High data quality

Outstanding precision and accuracy through CONLYTE technology. Long-term stability of calibration.

Lightweight

Most compact OES metal analyzer, optimized for cordless continuous operation at testing areas that are difficult to access.

Cloud service

Comfortable data processing and remote diagnostics thanks to innovative lytic**OS** cloud.

Extreme durability

High-quality materials and excellent workmanship guarantee a long instrument lifetime.

Elementar – your partner for excellent elemental analysis

Elementar is the world leader in high performance analysis of organic and inorganic elements. Continuous innovation, creative solutions and comprehensive support form the foundation of the Elementar brand, ensuring our products continue to advance science across agriculture, chemical, environmental, energy, materials and forensics markets in more than 80 countries.

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