

Spectrometer Niton



Summary of Content

A Niton Spectrometer is a portable or handheld analyzer that uses X-ray fluorescence (XRF) or laser-induced breakdown spectroscopy (LIBS) to provide rapid, non-destructive elemental analysis of materials.

Overview

Niton Spectrometers, developed by Thermo Fisher Scientific, are designed for fast and reliable elemental analysis in a variety of industries, including mining, metal recycling, precious metals, and environmental testing . They are available in handheld and portable forms, making them suitable for fieldwork, scrap yards, shop floors, and retail environments .

Technology

- **X-ray Fluorescence (XRF):** This technology allows the spectrometer to detect and quantify elements in a sample by measuring the characteristic secondary X-rays emitted when the sample is exposed to primary X-rays . XRF is widely used for metal composition analysis, alloy identification, and lead screening .
- **Laser-Induced Breakdown Spectroscopy (LIBS):** Some Niton models, like the Niton Apollo, use LIBS to analyze materials by creating a plasma on the sample surface with a laser and measuring the emitted light spectrum . LIBS is particularly useful for carbon analysis and positive material identification.

Features

- **Handheld and lightweight:** Easy to carry and operate in the field .
- **Non-destructive analysis:** Samples remain intact after testing .

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Niton™ XL2 XRF Analyzer. Instantly identify materials for your analytical requirement, from scrap metal recycling to mining

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Metal Properties, Identification & Sorting

Whether you need an analyzer for metal alloy testing, mining exploration, environmental applications, or electronics and consumer

Niton™ XL2 plus RFA-Handspektrometer zur

Das mobile RFA-Spektrometer Niton™ XL2 plus identifiziert unterschiedliche Legierungen im

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Mobile XRF spectrometer ⇒ Niton™ XL5 plus analyzer

The Niton™ XL5 plus mobile elemental analyzer is one of the world's smallest, lightest and most powerful handheld X-ray

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

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