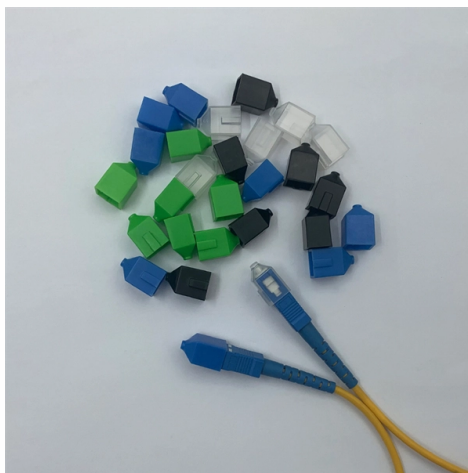


Price of African Metal Spectrometer



Overview

Handheld XRF Spectrometer | PMI Alloy Analyzer – The H-500 metal analyzer with its special PMI (Positive material Identification) Spectrometer Technologie.

Key Takeaways

Metal spectrometers in Africa typically range from \$5,000 for handheld XRF units to over \$100,000 for high-end laboratory OES or ICP spectrometers. Market Overview

The African market for spectrometers and spectrophotometers reached 195,000 units valued at \$574 million in 2024, with South Africa accounting for the majority of consumption and imports, followed by Egypt, Mozambique, and Kenya as producers. The market is expected to grow steadily, reaching 228,000 units valued at \$697 million by 2035. This indicates a broad range of spectrometer types and prices, reflecting both portable and high-precision laboratory instruments.

Typical Price Ranges

- Handheld XRF Spectrometers: Portable analyzers like the H500A or H500B are designed for field use, scrap metal sorting, and alloy verification. Prices generally start around \$5,000–\$15,000, depending on features, software, and calibration options.
- Laboratory XRF or OES Spectrometers: High-performance optical emission spectrometers (OES) or XRF units for industrial labs, mining, or research applications can cost \$50,000–\$120,000 or more, depending on precision, sample throughput, and additional capabilities such as ICP integration.



- **Factors Affecting Price:** Brand reputation, analytical precision, durability, software, maintenance, and after-sales support significantly influence cost. Instruments built for harsh industrial environments often use stainless steel and robust components, which increases price but ensures long-term reliability .

Supplier Options in Africa

- **Spectrometer Technologies (Johannesburg, South Africa):** Offers a wide range of XRF, AAS, and ICP spectrometers with installation, training, and after-sales support .

- **Inspection Tools:** Provides handheld XRF analyzers suitable for alloy identification, scrap sorting, and field applications .

- **Online Marketplaces:** Platforms like Alibaba list various metal spectrometers with global shipping options, allowing buyers to compare prices and specifications .

Conclusion

For buyers in Africa, handheld XRF spectrometers are the most affordable option, while high-end laboratory OES or ICP spectrometers represent a significant investment. When selecting a spectrometer, consider not only the purchase price but also long-term costs such as maintenance, consumables, software updates, and training to ensure optimal performance and return on investment .

Article Content

High Performance Spectrometer Market in Africa | Report

The African market for high performance spectrometers encompasses bench-top and floor-standing optical emission,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

