

Prices of Different Metal Spectrometers

Article Overview

Metal spectrometer prices vary widely, ranging from around \$3,000 for compact handheld XRF analyzers to \$50,000-\$100,000 or more for advanced laboratory-grade OES or ICP systems.

Portable XRF Spectrometers

Handheld XRF analyzers, such as the JITAI9201, are compact and designed for field use. These devices provide fast, precise elemental analysis of metals and alloys, with features like a 50 kV X-ray tube, Si-PIN diode detector, automated filters, and onboard data storage . Prices for portable XRF spectrometers typically start around \$3,000-\$10,000, depending on brand, detector type, and included software.

Optical Emission Spectrometers (OES)

Tabletop or compact OES systems, like the PG SPARK OES CCD Metal Analyzer, are used for ferrous and non-ferrous metals in foundries or machining operations . These spectrometers offer high-resolution full-spectrum scanning, argon-flushed chambers, and multi-element detection. Prices for OES systems generally range from \$20,000 to \$50,000, with more advanced models exceeding \$100,000 for high-end laboratory setups.

Laboratory-Grade and Industrial Spectrometers

High-end spectrometers, including ICP, mass spectrometers, and advanced WDXRF systems, are designed for precise, multi-element analysis in industrial or research labs . These instruments often require specialized installation, maintenance, and calibration. Pricing for these systems can range from \$50,000 to several hundred thousand dollars, depending on capabilities, wavelength range, and automation features.

Online Marketplaces

Platforms like eBay and Alibaba offer a variety of metal spectrometers, including both new and used units . Prices on these marketplaces can be lower, especially for older or refurbished models, but buyers should consider warranty, calibration, and support when purchasing.

Summary

- o Handheld XRF: ~\$3,000-\$10,000
- o Compact OES (Tabletop): ~\$20,000-\$50,000
- o Advanced Laboratory OES/ICP/High-End XRF: \$50,000-\$200,000+
- o Used or refurbished units: Variable, often 30-60% lower than new prices When selecting a metal



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spectrometer, consider the type of metals analyzed, required precision, portability, and software features, as these factors significantly influence cost and suitability for your application.

VAS Spectrometers offers high-precision Optical Emission Spectrometers (OES) and spectrometer

Comparing metal analysis spectrometer prices. You can easily wholesale quality metal analysis spectrometer at wholesale prices on

In this guide, we'll break down the factors that influence mass spectrometer pricing, compare cost ranges for different

Discover the top-rated NMR spectrometers of 2026 for research and industry. Compare high

Spot Prices Updated Daily Updated daily. Spot prices on 23 base metals, precious metals, rare metals and materials PLUS charts

Whether you're building a custom solution or seeking a turnkey system, our spectrometers support UV-VIS spectroscopy, NIR

We are a dealer specializing in second hand optical emission spectrometers (OES) used for base metal analysis of primary metal

How much does an XRF Analyzer Cost? There are a wide variety of XRF analyzers on the market, ranging from handhelds and

Find reliable spectrometer prices for metal analysis. Shop our collection of advanced XRF and AAS spectrometers for

Optical emission spectroscopy using arc and spark excitation (Arc Spark OES) is the preferred method for trace metal analysis to

For example, a simple scrap metal identifier may cost under \$10,000, while a top-tier gold

Metal Power Analytical provides world-class spectrometers, metal analysis instruments, and OES technology for steel plants,

Types of Optical Emission Spectrometers An Optical Emission Spectrometer (OES) is a powerful analytical instrument used to



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The SPECTROPORT portable arc spark spectrometer is ideal for many applications in the metal

Ever wondered how much an XRF spectrometer really costs? The answer isn't so simple, it depends on a variety of

Discover precision spectrometer for metal analysis with xrf analyzer for precious metals. CE certified, 0.05% accuracy, ideal for gold

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