

Price of Rare Metal Spectrometer



AI Overview

Rare metal spectrometers typically range from \$30,000 for handheld XRF units to over \$150,000 for advanced benchtop or ICP-MS systems.

Handheld XRF Spectrometers

Handheld XRF (X-ray fluorescence) analyzers, commonly used for rapid elemental analysis of metals, are the most accessible option. Prices for new units generally start around \$30,000 for basic models and can reach \$35,000 or more for advanced models with additional features such as precious metal analysis, alloy identification, and workstation integration (Olympus Delta Pro/Premium) . Used or refurbished units can offer savings of up to 70%, depending on age and condition . Popular brands include Thermo Fisher Niton, Olympus, Bruker, and Oxford Instruments .

Benchtop and Laboratory Spectrometers

For high-precision analysis, benchtop spectrometers such as Optical Emission Spectrometers (OES) or ICP-MS systems are used. Prices vary significantly based on technology and capabilities:

- Thermo Scientific ARL 4460 OES and similar units: typically \$80,000–\$120,000 for new or well-maintained used systems .
- PerkinElmer NexION 350X ICP-MS: designed for complex elemental analysis, often priced above \$150,000, depending on configuration and autosampler options .
- Additional costs may include installation, calibration, and software packages.

Factors Affecting Price

- Technology Type: XRF < OES < ICP-MS in terms of cost and analytical precision.

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Rare Earths Prices

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