



XRF Spectrometers and Metal Analyzers



XRF Spectrometers & Metal Analyzers - Advanced Elemental Analysis for Accurate Material Identification

XRF Spectrometers and Metal Analyzers are primarily used for accurate elemental analysis across industries such as metal manufacturing, recycling, mining, jewelry, and quality control laboratories. Using X-ray fluorescence (XRF) technology, these instruments provide rapid, non-destructive testing (NDT) to determine the composition of metals, alloys, and other materials with high precision and reliability.

What is an XRF Spectrometer?

An XRF Spectrometer is a powerful analytical tool that uses X-ray fluorescence to identify and quantify the elemental composition of a sample. It works by exciting atoms in the material, causing them to emit secondary X-rays that reveal their unique elemental signature. This technology is widely used for metal analysis, alloy verification, precious metal testing, and RoHS compliance screening.

Applications of XRF Spectrometers & Metal Analyzers

- Metal and Alloy Identification – Essential for verifying the composition of stainless steel, aluminum, titanium, and other industrial alloys.
- Precious Metal Testing – Used in the jewelry and gold industry for gold purity testing, silver, and platinum analysis.
- Scrap Metal Recycling – Ensures accurate sorting and valuation of scrap metals for efficient recycling.
- Mining and Geological Exploration – Detects and quantifies elements in ores, minerals, and raw materials.
- Regulatory Compliance & RoHS Screening – Ensures products meet environmental regulations by detecting restricted substances like lead (Pb), mercury (Hg), and cadmium (Cd).
- Coating Thickness Measurement – Ideal for plating and surface analysis in manufacturing.

Why Choose an XRF Metal Analyzer?

- Fast & Non-Destructive Testing (NDT): Get accurate results in seconds without damaging the sample.
- High Precision & Sensitivity: Detect trace elements with laboratory-grade accuracy.
- Portable & Benchtop Models Available: Choose from handheld XRF analyzers for on-site testing or benchtop spectrometers for high-throughput lab analysis.
- User-Friendly Operation: Intuitive software and touchscreen interface for easy data interpretation.
- Compliance with Industry Standards: Conforms to ASTM, ISO, and RoHS testing requirements.

Whether you need a gold tester, alloy analyzer, or elemental screening solution, the Qualitest range of XRF Spectrometers and Metal Analyzers ensures high-accuracy material analysis for your industry.



ADVANCED TESTING TECHNOLOGIES

USA | CANADA | UAE | GCC | EU | INDIA | APAC | AFRICA | LATIN AMERICA

Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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