



Thermo Scientific™ Niton™ XL2 XRF Precious Metal Analyzer

Laboratory-quality analysis in the palm of your hand

Throughout the precious metal life cycle from refining to recycling – the goal is always to ensure quality, control costs, and achieve accurate purity analysis. With the volatility and high prices of precious metals, even a small variation in composition accuracy can be expensive. Niton X-ray fluorescence (XRF) analyzers deliver fast, reliable results – and unlike more traditional testing methods, are completely nondestructive. These analyzers provide you with the ideal method to test the purity and chemistry of all precious metals, with proven simplicity, performance, features, and portability. You also get an accurate chemical analysis of tramp and trace elements, which could impact valuation and future refining needs.

Take your Niton XRF analyzer anywhere. It's your personal field laboratory for dependable element analysis that delivers a real competitive edge.

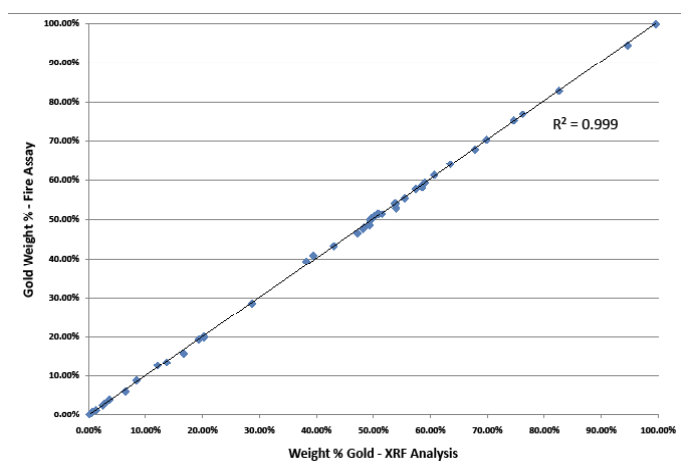
The instrument of choice

Just a few seconds – that's all it takes to measure the exact precious metal content in jewelry, coins, and other valuable products using the Niton XL2 precious metal analyzer. You get the power of proven Niton XRF analyzers in a value packaged solution.

- Exceptionally fast, easy to use – Just point and shoot or close the lid (with test stand). See results in seconds on a touch screen color display. No need to use any harsh chemicals or acids that can burn your fingers, ruin clothing, and damage countertops.
- Fit, form, function – Engineered from the ground up, keeping ergonomics and ease-of-use in mind, Niton XL2 precious metal analyzers ship from the factory fully calibrated and ready to use upon arrival at your site. Minimal training is required and built-in system checks help ensure your instrument continues to run as well as it did the day it arrived.
- Nondestructive – Unlike destructive testing methods, such as acid and fire assay, samples remain intact and undamaged.
- Gold-plate detection – AuDIT™, a proprietary technology developed for, and only available on Thermo Scientific portable XRF analyzers, helps you meet the challenge of identifying gold-plated items...vermeil (gold-plated silver), goldplated copper, steel, tungsten, and any other non-gold substrate.
- Lab-quality performance – Niton XRF precious metal analyzers make use of advanced electronics and detectors such as silicon PIN (Si-PIN) or silicon drift detectors (SDD), which are also found in large and expensive laboratory equipment.


Niton XL2 Precious Metal Analyzer Specifications

Weight	< 3 lbs 10.7 oz (1.66 kg)
Dimensions	10.25 x 11 x 4 in. (256 x 275 x 100 mm)
Tube	Ag anode 45 kV maximum, 80 µA maximum
Detector	High-performance semiconductor
System Electronics	400 MHz ARM 11 CPU 300 MHz dedicated DSP 80 MHz ASICS DSP for signal processing 4096 channel MCA 64 MB internal system memory 128 MB internal user storage
Display	Fixed angle, color, touch-screen display
Standard Analytical Range	22 elements including all precious metals
Data Storage	Internal >10,000 readings with spectra
Data Transfer	USB, Bluetooth™, and RS-232 serial communication
Security	Password-protected user security
Mode	Precious metals
Data Entry	- Touch-screen keyboard - User-programmable pick lists - Optional wireless remote barcode reader
Standard Accessories and Features	- Locking shielded carrying case - Shielded belt holster - One 6-cell lithium-ion battery pack 110/220 VAC battery charger/ AC adaptor - PC connection cables (USB and RS-232) - Niton Data Transfer (NDT™) PC software - Safety lanyard - Mobile test stand - Portable test stand
Optional Features and Accessories	- Additional battery pack - Wireless portable printer - Barcode scanner
Licensing/Registration	Varies by region. Contact your local distributor
IP Rating	IP54 (splash and dust proof)
Compliance	CE, RoHS



Gold content analysis – XRF analyzer vs. fire assay

 Learn more at thermoscientific.com/niton
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