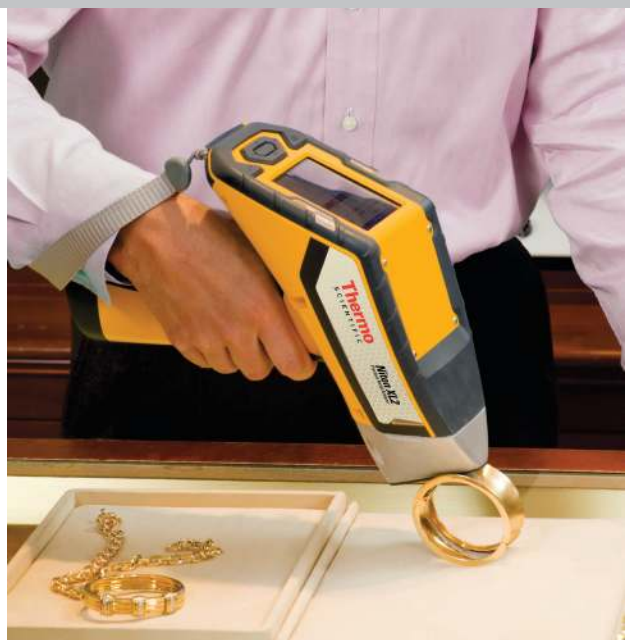
Product Specifications

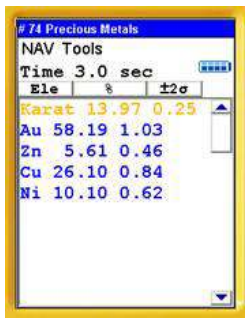
Thermo Scientific Niton XL2 XRF Precious Metal Analyzer

Thermo Scientific Niton XL2 x-ray fluorescence (XRF) precious metal analyzers deliver fast and accurate analysis results in an easy-to-use, robust, and reliable package. Harness the power of XRF technology and take control of your operations. Whether you are in the business of buying and recycling scrap jewelry, manufacturing precious metal items, or refining, you can be confident that your operations are backed by the pioneer in portable XRF technology.



Thermo Scientific Niton XL2 precious metal analyzers provide you with many distinct advantages:

- **Easier, faster, more accurate than nitric acid test methods**
- **Faster, more comprehensive analysis than fire assay, with comparable accuracy**
- **Simultaneous analysis of all precious metals as well as many other common alloying elements**



Example of 14k gold analysis.

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 price of precious metals, even a small variation in composition accuracy can be expensive. Thermo Scientific 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 unmatched 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 Thermo Scientific Niton analyzer anywhere. It's your personal field laboratory for dependable elemental analysis that delivers a real competitive edge.

The Instrument of Choice

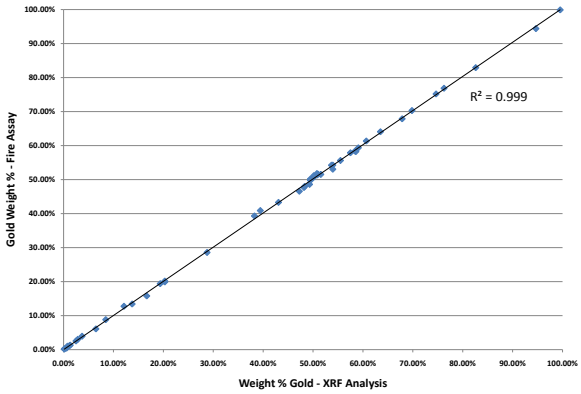
Just a few seconds – that's all it takes to measure the exact precious metal content in jewelry, coins, and other valuable products using the Niton® XL2 precious metal analyzer. You get all the power of our top-of-the-line instruments in a value-packaged solution.

- 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, Thermo Scientific 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 our built-in system check helps 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.
- Lab-quality performance – Thermo Scientific Niton XRF analyzers make use of the most advanced electronics and detectors available today. All of our instruments use either silicon PIN (Si-PIN) or silicon drift detectors (SDD), which are also found in large and expensive laboratory equipment.



Niton XL2 XRF Analyzers – Learn More

For more information on the Niton XL2 Series or any of the other portable XRF instruments in our product family, please contact your local Thermo Scientific Niton Analyzer representative or visit www.thermoscientific.com/niton.



Gold content analysis – Thermo Scientific Niton XRF analyzer vs. fire assay

Thermo Scientific Niton XL2 analyzers represent just one of our portable analyzer solutions, which include XRF tools for metal alloy identification, lead paint inspection, RCRA metals in soil, toy and consumer goods testing, RoHS and WEEE compliance screening, and many other analysis needs.

Thermo Scientific 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/ 128MB internal user storage**
Display	**Fixed angle, color, touch-screen display**
Standard Analytical Range	**14 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**
Optional Features and Accessories	**Thermo Scientific portable test stand** **Additional battery pack** **Wireless portable printer** **Barcode scanner**
Licensing/Registration	**Varies by region. Contact your local distributor.**
Compliance	**CE, RoHS**

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