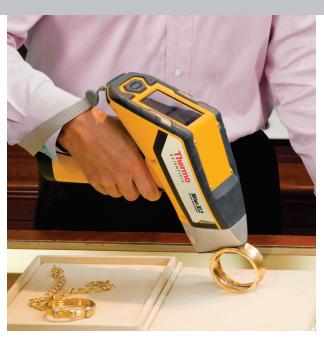
# Thermo Scientific Niton XL2 XRF Precious Metal Analyzer

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

Time .	3.U %	se	±2	σ	
Karat	13	.97	0.2	25	•
Au 58	.19	1.0	03		
Zn 5	.61	0.4	46		-
Cu 26	.10	0.8	34		
Ni 10	.10	0.	52		

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.

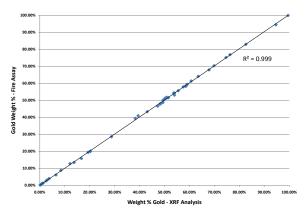
- Exceptionally fast, easy to use Just point and shoot or close the lid (with test stand). See results in seconds on a touchscreen color display. No need to use any harsh chemicals or acids that can burn your fingers, ruin clothing, and damage countertops.
- Fit, form, function Engineered from the ground 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.



 $\label{eq:content} \textbf{Gold content analysis} - \textbf{Thermo Scientific Niton XRF analyzer vs.} \\ \textbf{fire assay}$ 

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	Locking shielded carrying case			
Features	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	Thermo Scientific portable test stand			
Accessories	Additional battery pack			
	Wireless portable printer			
	Barcode scanner			
Licensing/Registration	Varies by region. Contact your local distributor.			
Compliance	CE, RoHS			

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