

Handheld Gold Plating Spectrometer



Article Overview

Handheld XRF analyzers like the GEMORO XRF, Thermo Scientific Niton XL2, and Vanta series provide fast, non-destructive gold plating detection and precise elemental analysis for jewelry, coins, and precious metals.

Overview

Handheld gold plating spectrometers use X-ray fluorescence (XRF) technology to determine the elemental composition of metals without damaging the sample. These devices are portable, lightweight, and designed for jewelers, pawnshops, refiners, and manufacturers. They can detect gold plating, differentiate between solid and plated metals, and measure multiple elements simultaneously, including gold (Au), platinum (Pt), silver (Ag), palladium (Pd), rhodium (Rh), and other precious and base metals .

Key Features

- **Non-destructive testing:** XRF analyzers measure surface composition without altering the item, preserving its value .
- **Depth of analysis:** Typical devices measure 10–20 microns deep, which is 5 times deeper than standard gold plating thickness (1–3 microns), allowing accurate detection of plated items .
- **Elemental coverage:** Most handheld analyzers detect over 25 elements, including Cu, Ni, Zn, Fe, Cr, Co, Ti, V, Mn, Sn, Pb, Cd, Sb, Bi, Zr, and Mo .
- **Portability and durability:** Devices weigh around 3 lbs, include rechargeable batteries, and come with protective cases for field use

Article Content

Precious Metal Analysis Tool | Portable Analytical

Thermo Scientific AuDIT™ gold-plating detection technology can quickly and precisely differentiate most

XRF Analyzer for Jewelry, X-ray Gold Testing Machine

Superbmelt jewellery spectrometer can measure different sizes and shapes of metal. Which makes it suitable for use in pawn shops,

Gold Analyzer XL2 100 Discovers gold content

Handheld XRF spectrometer measures gold content ⇒ for scrap gold purchase, coin trade, jewelers, pawnshops, auction houses &

GEMORO XRF Gold & Precious Metal Analyzer | Handheld XRF Tester

Handheld GEMORO XRF analyzer for non-destructive gold, silver, platinum, and palladium testing. Fast precious metal identification

Solutions for analyzing precious metals and gold testing | Thermo ...

Gain trust from your customer Thermo Scientific Niton XRF precious metal analyzers provide retailers, pawn shops, cash-for-gold

GOYOJO Handheld Spectrometer X-Ray Fluorescence Spectrometer

GOYOJO Handheld Spectrometer X-Ray Fluorescence Spectrometer XRF Alloy Analyzer Handheld XRF Precious

XRF Plating Measurement and Analysis: the Basics

Page describes the use of XRF measurement for plating thickness measurement and elemental analysis; also using software for

GOLDSCOPE SD® | Helmut Fischer

Cost-effective X-ray fluorescence analysis around gold and precious metals. Not everything that glitters is

GEMORO XRF GOLD & PRECIOUS METAL ANALYZER | Sy Kessler

The GEM ORO XRF is a handheld, portable Energy Dispersive XRF Spectrometer designed for jewelers, pawnshops,

Technologies and solutions used in precious metals analysis and

Technologies and solutions used in precious metals analysis and testing for pawnbrokers, jewelers, cash-for-gold operators, refiners,

Plating Thickness Analysis with Skyray Spectrometers

Plating Thickness Analysis with Skyray Spectrometers Because of penetration depths, X-ray Fluorescence Spectroscopy is an ideal

Advanced Technologies for Analyzing Precious Metals

Advanced technologies for analyzing precious metals and identifying elements and alloys When it comes to assessing the value of

Power of XRF Gold Testers: Precise Testing for Gold

Discover the power of XRF gold testers for precise and non-destructive analysis of gold samples. Our

Gold, Silver and Platinum Analysis | Bruker

Businesses buying, selling or processing refined gold, silver or platinum find Bruker's fast and accurate testing tools help to run an

GEMORO® XRF Gold and Precious Metal Analyzer

Our GEMORO XRF is a handheld, portable Energy Dispersive XRF Spectrometer designed for retail jewelers, pawnshops,

Measurement technology for electroplating | Helmut Fischer

Highest requirements for quality assurance in electroplating with Fischer measurement technology. Quality assurance plays a central

Niton™ XL2 XRF Precious Metal Analyzer

The Niton XL2 XRF Precious Metal Analyzer quickly detects gold plating and counterfeit gold and gives

High-Performance XRF Spectrometers

VRAY Instrument delivers advanced XRF gold and material testing solutions. Explore portable, handheld, and benchtop XRF

Niton Portable Analyzer Models

Thermo Scientific Niton instruments utilize X-ray fluorescence spectroscopy (XRF), laser induced breakdown spectroscopy (LIBS),

XRF Coating Thickness Measurement

XRF Coating Thickness Measurement Equipment XRF Coating Thickness Analyzer Our Spectrometers Provide Fast, Cheap,

GOLDSCOPE SD® | Helmut Fischer

Not everything that glitters is gold. With the help of our GOLDSCOPE SD® XRF gold tester you can check the authenticity of jewelry

Niton™ DXL Precious Metal Analyzer High-performance

Be absolutely sure of the value of the precious metals you buy and sell with a fast, simple nondestructive

High-Performance XRF Spectrometers

VRAY gold testing machines utilize advanced XRF technology for precise and non-destructive analysis of

Handheld Metal Analyzer | Thermo Scientific Handheld Precious Metal ...

Kassoy is a reliable source for handheld metal analyzers and anything else you need when testing precious metals. Shop now.

XRF Precious Metal Analyzers

XRF precious metal analysis is a nondestructive testing method for analyzing precious metals, such as gold, silver, and platinum.

Coating Thickness Analysis for Electroplating

Coating Thickness Analysis for Electroplating We provide a variety of different instruments for rapid and accurate coating thickness

Niton XL2: Portable Precious Metal Analyzer for Accuracy : Quote,

The Niton XL2 XRF Precious Metal Analyzer rapidly detects counterfeit gold and gold plating and provides users with the precise

XRF Gold Tester Gun

XRF gold analyzers can also detect plating, and calculate its thickness. In this case, quantification is based on the ratio of intensities

Contact Us

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