

FISCHERSCOPE® X-Ray XAN® 110



Gold and Jewelry Analysis – Quick and Easy

From the experts for coating and material analysis – the new FISCHERSCOPE X-Ray XAN 110 spectrometer.

To know the real value of gold and jewelry the XAN 110 is the right solution. It analyses fast and non-destructive red, yellow and white gold, silver, rhodium coatings and other jewelry alloys.

Measured results are displayed in karat, ppm or weight percent, and easily printed out as customized reports. The XAN 110 is accurate, safe and easy to use, robust and maintenance free. In addition, it meets the requirements of DIN ISO 3497 and ASTM B 568.

Whether you want to qualify known gold samples or determine unknown jewelry materials, the XAN 110 with the exceptional Fischer WinFTM operating software is the right choice. Either using the new and improved standardless fundamental parameter method or standards based – the result is fast and exact.

To simplify sample placement, the x-ray source and the detector are arranged in the base of the XAN 110 which uses an upwards measurement technique. The integrated video-microscope with cross hair, beam indicator, LED illumination and magnification make sample placement quick and easy. There is no need to adjust a table or sample stage – just place and measure.

Fischer®

Long-term stability and outstanding precision – better than 1% for gold – are benefits of the XAN 110. In addition, the necessity for re-calibration is significantly reduced – thus saving time, effort and cost of ownership.



Excellent ergonomics, easy operation and fast calculation of the measurement best describe the XAN 110. Usage is safe and easy – for experienced staff as well as for employees with little training. There is no need for a special laboratory room for the XAN 110.



If you need an outstanding accurate and reliable tool – the XAN 110 is the right choice.

WinFTM® Evaluation Software for PC

The advanced Fischer WinFTM software comes all inclusive – complete, easy to use and without any need for additional modules or upgrades.



- Operation of the x-ray unit
- Control of the entire measuring process
- Advanced fundamental parameter method for standard-free measurements
- Standard based measurements
- If required calibration with certified standards
- Material analysis of composition and coating thickness
- Automatic element peak identification
- Indication of values as karat, wt% or ‰
- Reporting tool for customized reports

Specification

Intended use	Gold and jewelry analysis
Method	Energy dispersive x-ray fluorescence spectrometer (EDXRF), according to DIN ISO 3497 and ASTM B 568
Precision	≤1 ‰ (≤0,1wt %) for Gold Au (79)
X-ray tube	Standard tungsten tube, thermally stabilized for extended life and stability
High voltage	50 kV
Aperture (collimator)	Ø 0.3 mm
X-ray detector	Proportional counter
Video microscope	High-resolution color CCD video camera. Top view on measurement spot along x-ray beam axis. Precise cross hair, spot illumination, true size spot indicator
Magnification	up to 184x

Technical Data

Line voltage	AC 115 V or AC 230 V 50 Hz / 60 Hz
Power consumption	max. 120 W
Dimensions	380 x 570 x 340 [mm]
Weight	≤ 42 kg
Chamber	318 x 509 x 29 .. 86 [mm]

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