

FISCHERSCOPE® X-RAY XAN® Series

The New XAN® 220 & 250



The new FISCHERSCOPE X-RAY XAN series are modern X-Ray fluorescence measuring instruments for coating thickness measurement and material analysis.

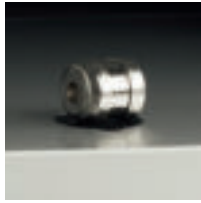
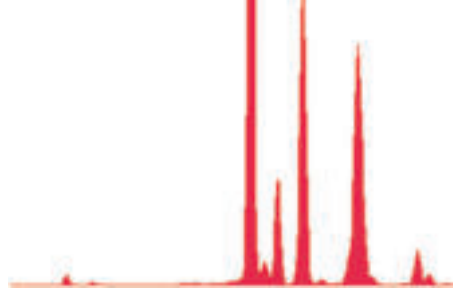
The **XAN 220** is optimized for fast, non-destructive analysis of jewelry, precious metals, dental alloys, yellow and white gold, platinum, silver, rhodium and all jewelry alloys and coatings. Used properly, the XAN 220 can deliver comparable results as cupellation without destroying the sample.

The **XAN 250** is an universal high performance analysis instrument. With electrically changeable apertures and primary filters, the XAN 250 can accurately determine elements in the range of Aluminum to Uranium. The applications range from trace analysis in toys to analysis of coatings in electronics.

Both instruments are equipped with a micro focus X-ray tube and a new high-resolution silicon drift detector (SDD). This results in highest precision and very low detection limits. In a matter of seconds, the elements of the sample are accurately determined.

In order to simplify sample placement, the X-ray source and the silicon drift detector are located in the instrument's lower chamber. The measuring direction is from underneath the sample. The integrated video-microscope with zoom, cross hair, illumination and beam indicator make sample placement quick and easy. There is no need to adjust a table or sample stage – just place and measure it.

fischer®



Long-term stability and outstanding precision – e.g. for XAN 220 better than 0.5 ‰ for gold – are benefits of both instruments. This significantly reduces the necessity for re-calibration, thus saving time, effort and cost of ownership. The measured results are immediately displayed and can be easily printed as a report.

Operation 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 operating



XAN 220

Analysis instrument, optimized for non-destructive analysis of jewelry, coins and precious metals.

Fixed aperture (collimator) and fixed primary filter

Element range: Chlorine (17) to Uranium U (92), up to 24 elements simultaneously

Typical fields of application:

- Analysis of jewelry, precious metals and dental alloys
- Yellow and white gold
- Platinum and silver
- Rhodium
- Alloys and coatings
- Multi layer coatings

Measured results are displayed e.g. in karat, ‰ or weight %



the instruments. Both instruments fulfill DIN ISO 3497 and ASTM B 568.

WinFTM® Software for PC

The advanced WinFTM software comes all inclusive – complete, easy to use and without any need for additional modules or upgrades. The software comprises the fundamental parameter method by FISCHER. This allows for the analysis of solid and liquid specimens as well as coating systems without calibration.

XAN 250

Universal high performance analysis instrument for fast and non-destructive material analysis and coating thickness measurement

Aperture (collimator) 4x electrically changeable, Primary filter 6x electrically changeable

Element range: Aluminum (13) to Uranium U (92), up to 24 elements simultaneously

Typical fields of application:

- Measurement of functional coatings, starting from a few nanometers, in the electronics and semiconductor industries
- Trace analysis for consumer protection, e.g. lead content in toys
- Analysis of alloys with highest requirements of accuracy in the jewelry and watch industries and in metal refineries
- Research in universities and in the industries



Helmut Fischer GmbH Institut für Elektronik und Messtechnik, 71069 Sindelfingen, **Germany**, Tel. +49 70 31 30 30, mail@helmut-fischer.de
Fischer Instrumentation (GB) Ltd, Lymington/Hampshire SO41 8JD, **England**, Tel. +44 15 90 68 41 00, mail@fischergb.co.uk
Fischer Technology, Inc., Windsor, CT 06095, **USA**, Tel. +1 (860) 683 07 81, info@fischer-technology.com

Helmut Fischer AG, CH-6331 Hünenberg, **Switzerland**, Tel. +41 41 785 08 00, switzerland@helmutfischer.com
Fischer Instrumentation Electronique, 78180 Montigny le Bretonneux, **France**, Tel. +33 1 30 58 00 58, france@helmutfischer.com
Helmut Fischer S.R.L., Tecnica di Misura, 20099 Sesto San Giovanni (Milano), **Italy**, Tel. +39 0 22 55 26 26, italy@helmutfischer.com
Fischer Instruments, S.A., 08018 Barcelona, **Spain**, Tel. +34 9 33 09 79 16, spain@helmutfischer.com
Helmut Fischer Meettechniek B.V., 5627 GB Eindhoven, **The Netherlands**, Tel. +31 40 248 22 55, netherlands@helmutfischer.com
Fischer Instruments K.K., Saitama-ken 340-0012, **Japan**, Tel. +81 4 89 29 34 55, japan@helmutfischer.com
Fischer Instrumentation (Far East) Ltd, Kwai Chung, N.T., **Hong Kong**, Tel. +852 24 20 11 00, hongkong@helmutfischer.com
Fischer Instrumentation (S) Pte Ltd, Singapore 658065, **Singapore**, Tel. +65 62 76 67 76, singapore@helmutfischer.com
Nantong Fischer Instrumentation Ltd, Shanghai 200333, **P.R. China**, Tel. +86 21 32 51 31 31, china@helmutfischer.com
Fischer Measurement Technologies (India) Pvt. Ltd, Pune 411036, **India**, Tel. +91 20 26 82 20 65, india@helmutfischer.com

www.helmut-fischer.com

