FISCHERSCOPE® X-RAY XAN® 500

Mobile material analysis and
coating thickness measurement

Mobile X-ray measurement

If the sample can't go to the instrument, the instrument must come to the sample! With its FISCHERSCOPE® X-RAY XAN® 500, Fischer offers a mobile X-ray fluorescence (XRF) device optimized for coating thickness measurement and material analysis of alloys.

Despite its small size, the XAN 500 is the equal of any XRF instrument one might find in a lab. Its modern silicon drift detector (SDD) guarantees correct measurement results in just a few seconds. And even complex measuring tasks involving multiple layers and various alloys are resolved reliably.

Especially when measuring coating thicknesses, it is of great importance to ensure that the distance between device and sample remains constant and the beam path is straight. The XAN 500's 3-point support allows you to set the device up safely and stably, for accurate measurement of coatings. The result is shown directly on the device's display.

For further data evaluation, the XAN 500 is equipped with an Ultrabook and the full WinFTM® software suite. Coating thickness measurement and material analysis with WinFTM are both based on fundamental parameter analysis. This makes it possible to measure accurately without prior calibration – that is, standard-free. And for those occasions when only the highest degree of precision will suffice, we also offer DAkkS-certified standards that make calibrating the device for your specific measuring task quick and easy.

Features

- Weight 1.9 kg
- Measurement spot: 3 mm ∅
- Silicon drift detector
- Tungsten X-ray tube, 40kV, max. 4W
- 10" Ultrabook with WinFTM® BASIC, or (optionally) WinFTM® SUPER

One device – three application areas

The XAN 500 is the most versatile X-ray fluorescence instrument on the market. Used as a handheld device, it is ideal for controlling the coatings on bulky parts likes car fenders, pipes, turbine blades or pressure rollers – and it can do so in ongoing production.

But this handy instrument is not limited to large-scale measuring tasks. With the optional measurement box – and at the flick of a wrist – the XAN 500 becomes a fully-fledged desktop instrument for quickly and reliably testing small parts like screws.

The XAN 500 is also suited for use in automated quality assurance; it can be integrated right into a production line, enabling continuous quality control.

With the accessory kit for solution analysis the composition of galvanic baths can be conveniently controlled with the handheld device

Benefits

- One instrument, three ways to use it: handheld, desktop and automated
- Precise coating thickness measurement and material analysis, especially for difficult material combinations, multiplex coatings and alloys (e.g. ZnNi on Fe)
- The measurement box for small parts is simultaneously a carrying case, so the instrument can be moved quickly safely to another location
- Powerful WinFTM software for data analysis
- Measurements according to DIN ISO 3497 and ASTM B 568

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