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Fischerscope XRF – Coating Thickness & Analysis



Helmut Fischer Energy Dispersive X-Ray Fluorescence Spectroscopy (EDXRF)

is a measuring method for coating thickness measurement and material analysis. It is often used for the qualitative and quantitative determination of the elemental composition of a material sample and for measuring coatings and coating systems. In industrial environments, this process is now established and can be utilized optimally using modern equipment.

The EDXRF is a very universal method that offers some outstanding advantages. For example, it is a non-destructive method that can analyse even sensitive materials without adverse effects. Measurements can be made quickly and usually without extensive sample preparation. The method is particularly suited for the analysis of unknown materials and compositions as well as for the measurement of coating thicknesses and systems. In addition, the method is able to detect traces of harmful substances in materials and finished products.

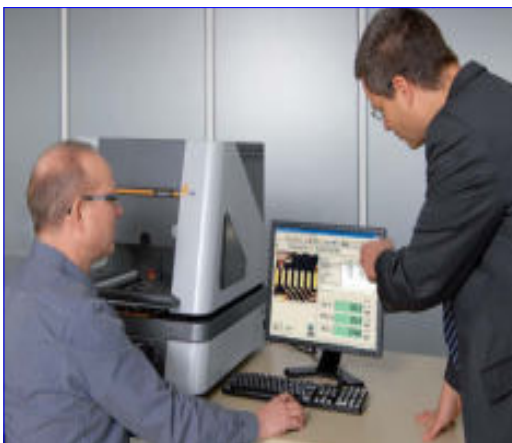
Moreover, the X-ray fluorescence analysis is a very clean method, as no chemicals or environmentally critical substances are used. Based on the design, the used X-radiation cannot leave the device, which makes the method an absolutely safe one for the operator and the environment.

Advantages of Fischerscope EDXRF

- Fast and non-destructive coating thickness measurements
- Analysis of solids, powders and liquids
- Trace analysis of harmful substances according to RoHS
- No adverse effects on sensitive materials
- High precision and trueness
- Very broad range of applications
- Little to no sample preparation
- Safe method without environmentally hazardous chemicals
- Inexpensive because no consumables
- Standard-free and calibrated analyses
- Determination of sample homogeneity
- Microanalysis of complex structures

FISCHERSCOPE X-RAY Product Line

X-Ray Fluorescence Spectrometers for Coating Thickness Measurement & Material Analysis



Every X-ray fluorescence spectrometer requires powerful software to become a true measuring instrument. Thus, the power of the **FISCHERSCOPE X-RAY** can only truly unfold and provide optimal analysis results with the innovative **WinFTM Software**. For this reason, the **WinFTM Software** is the mathematical heart of all **FISCHERSCOPE X-RAY** spectrometers. Because of it, the information regarding material composition, coating thickness and coating structure is obtained from the X-ray spectrum. FISCHER leads in this regard and implements in **WinFTM** innovative algorithms and methods that make this software unique.

Calibration standards



High-quality calibration standards are the basis for accurate measurements. For this reason, FISCHER operates its own calibration lab and creates its own, traceable calibration standards to the highest quality standard.

For further Fischerscope XRF features or a price, reply to this email or
Contact Us on 02 8850 3755 or www.kks.com.au

Special - 20% OFF Magnetic Yokes



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02 8850 3755 or www.kks.com.au

News - New Model

Helmut Fischer introduces their new model Poroscope HV40 High Voltage test instrument

The **POROSCOPE HV40** is suited for the following measurement applications:

- Pore testing in containers lined with enamel or synthetics, such as mineral oil tanks, agitator tanks, pipelines, boilers, heat exchangers
- Pore testing on coatings and materials that tend to electrostatic charging, such as capacitor or packaging film made of synthetic materials



The test method is based on the fact that all electrically insulating coating materials have a much higher disruptive strength than air.

Pore detection occurs at the defective spots through a spark-over (short circuit) between the test electrode and the conducting base.

A defective spot may be a thin air channel (pore, crack) or a coating that is too thin over the conducting base underneath.

For further Poroscope HV40 information please reply to this email or contact us on
02 8850 3755 or www.kks.com.au

Application - Unique Test Solutions



Non-Destructive Thickness measurement; of Sponge Cake

A unique opportunity arose to meet a clients need for thickness measurement of Sponge Cake. Our client produces a continuous flow of sponge which is eventually cut to size and rolled with jam.

The need arose to be able to spot measure the thickness whilst insitu without any adverse affect on the sponge.

This was achieved with a **Helmut Fischer Dualscope with the EA30 Probe** (0~20mm). By utalising the austenitic stainless base of the moving carousel we were able to measure the sponge and thus solving another unique thickness measurement application.



Non-Destructive Thickness measurement; of Uncured WC Products.

Having to destructively test your products is alright when your product is pretty well worthless, but when that isn't the case, wasting them becomes an issue.

This was the case when our client contacted us with their unusual measurement application; testing the wall thickness of their ceramic WC products (toilets, Cistern, basins ect) in the wet clay state.

This usually meant slicing a chunk of clay out of the item, manually thickness gauging it from both sides, which in turn destroyed the item. With a little ingenuity we put together a **Karl Deutsch Echograph & Ultrasonic Probe** to test the clay thickness from one side only. This proved to be accurate, simple and having no detrimental impact on their product. Therefore saving time and no more destroyed product.

Have a challenging application, contact us now !

Ph 02 8850 3755 - contact@kks.com.au - www.kks.com.au