

# PORTASPEC<sup>®</sup> X Series X-Ray Spectrograph

## Model 2501XLE

This 2501 X Series Portaspec is a light element, bench top, wavelength dispersive, x-ray fluorescence analyzer that performs nondestructive elemental analysis on a variety of sample types. The 2501 X Series version of the familiar Model 2501 Portaspec is now completely computer controlled. The standard operating interface utilizes a Windows<sup>®</sup> based touch-screen notebook computer.



*Portaspec Model 2501XLE*

The control software is simple and intuitive in function and offers a continuous record of analysis. It has a calibration mode that allows for a linear or quadratic fit for an almost unlimited number of standards. It also includes a specialized analysis mode designed to measure pretreatments on metal substrates.

The Portaspec is suitable to analyze from very small specimens to a

*For more information contact:*

maximum specimen of 1-3/4" (45mm) in diameter by 1 inch thick. The Portaspec has an x-ray tube that focuses a beam diameter of 0.75" (19mm) on to the specimen under analysis. This results in superior statistical data compared to instruments using a micro spot x-ray tube. This is notably important when analyzing pretreatments on galvanized steel substrates.

The new controller circuit board interprets and executes commands from the computer to turn x-rays on and off, set x-ray tube current and read counts on the digital scaler. An mA stabilizer board provides constant current to the x-ray tube. New to the 2501 X Series Portaspec, is a lightweight, high frequency, constant potential high voltage power supply, providing a high level of instrument stability at 10 or 20 kV output.

The Model 2501XLE Portaspec comes configured with a single fixed channel capable of analyzing K $\alpha$  elemental lines whose range include from element 12 Al to 17 Cl and from element 19 K to 21 Sc and L $\alpha$  lines of element 40 Zr.

The Single-Position Sample Holder enables you to easily load or unload samples. The sample holder can readily accept samples up to 1 3/4" (45mm) in diameter to 1 (25mm) thick.

This Portaspec model is useful for analyzing powders, solids and thin films, as well as coating weight and coating thickness analysis.

Note: Computer Model supplied with Customer's Portaspec may differ than Model shown in Picture

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