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Thermo Fisher Scientific Highlights Handheld Niton XRF Analyzer with Large Area Drift Detector at MD&M East 2009

Thermo Scientific Niton XL3t Series Analyzers with GOLDD Technology Offers Faster Testing Speed and Unparalleled Analytical Performance, Aiding Medical-Grade Alloy Verification and RoHS Compliance

BILLERICA, Mass. (April 2, 2009) – Thermo Fisher Scientific Inc., the world leader in serving science, will demonstrate its recently announced Thermo Scientific Niton XL3t Series with geometrically optimized large area drift detector (GOLDD™) technology at MD&M East 2009, June 9-11, Jacob K. Javits Center, New York, NY, Booth #945. Thermo Fisher Scientific is the world's leading manufacturer of handheld x-ray fluorescence (XRF) analyzers.

Groundbreaking GOLDD technology delivers improvements in light element detection, overall sensitivity and measurement times – as much as 10 times faster than conventional Si-PIN detectors, and up to 3 times more precise than conventional smaller, silicon drift detectors.

Thermo Fisher was able to surpass the performance of conventional Si-PIN and SDD detectors by combining the award-winning Niton® XL3t's 50kV, 2-watt x-ray tube, closely optimized geometry and patented signal processing hardware and software with our proprietary large area drift detector. The end result is GOLDD technology, delivering superior performance in the form of faster analysis, lower detection limits and unparalleled analytical precision. Further, this innovation allows analysis of light elements such as magnesium (Mg), aluminum (Al), silicon (Si), phosphorus (P) and sulfur (S) without helium or vacuum purging.

“The Niton XL3t with GOLDD technology brings true lab-quality performance to a handheld XRF analyzer. Although it's easy to use and delivers fast analysis, it is truly a laboratory-quality instrument, and can even measure light elements without helium or vacuum assistance,” said Bob Wopperer, director of business development for Thermo Scientific Niton Analyzers. “For those involved in medical manufacturing and design, it is the ideal tool to provide the validation and verification of critical metal alloy components as well as for the screening of incoming materials for RoHS compliance.”

Wopperer continued, “Whether at incoming material verification, fabrication, or at the installation verification stage, the Niton XL3t GOLDD provides immediate, nondestructive chemical analysis of aluminum, titanium, and nickel alloys, as well as superalloys, stainless steel, and other alloys that may have light element content – without the need for helium or vacuum purge. Users get outstanding precision with real-time traceable results.”

About Niton XL3t Series Analyzers

The Niton XL3t Series analyzers with GOLDD technology incorporate 80 MHz real-time digital signal processing and dual state-of-the-art embedded processors for computation, data storage, live video processing, and communication and come with many standard features and available options.

The standard Niton Data Transfer (NDT©) Software, a suite of data management utilities, allows users to:

- Customize the instrument
- Set user permissions
- Generate custom reports, meeting IPC-1752 criteria and complying with the FDA's 21 CFR Part 11 requirements
- Print certificates of analysis personalized with a company's own logo
- Remotely monitor and operate the instrument hands-free from a PC or PDA.

Integrated USB and Bluetooth* communications provide direct data transfer to a PC or networked storage device, eliminating the cumbersome data synchronization procedures required by PDA-based XRF analyzers. The NDT file format preserves and protects the data from each sample analysis, ensuring that this data is not unintentionally or intentionally compromised.

Additionally, users can isolate small areas of interest on a sample using the integrated color CCD camera and the optional integrated 3 mm small-spot focus feature, and then store the image of the tested area along with the analysis data for regulatory due diligence. The Niton XL3t Series offers the only fully-integrated and environmentally-sealed tilting color touch-screen display for easy viewing of sample results in any position and under virtually all lighting conditions. Also, all Thermo Scientific Niton XRF analyzers use third-generation lithium-ion batteries, providing the longest usage cycle of any portable XRF analyzer.

The Niton XL3t Series is available in a range of configurations and with an assortment of optional features and accessories to suit a wide variety of analytical needs.

For more information in advance of MD&M East 2009, or to schedule an on-site demonstration, contact your local representative or contact Thermo Scientific Niton Analyzers directly at (800) 875-1578 (toll-free US), +1 978 670-7460, by e-mail at niton@thermofisher.com, or visit our website at <http://www.thermo.com/niton>.

* Bluetooth is a registered trademark of Bluetooth SIG, Inc.

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About Thermo Fisher Scientific

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