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Elemental Analysis

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Thermo Fisher Scientific Introduces Innovative Automated WDXRF Spectrometer for Fast and Reliable Analysis in Metals, Mining, Minerals and Cement Industries

ECUBLENS, Switzerland (March 17, 2008) – Thermo Fisher Scientific Inc., the world leader in serving science further strengthens its WDXRF product portfolio, with the launch of the enhanced Thermo Scientific ARL OPTIM'X with SMS-Omega automation. This compact, innovative solution includes a unique combination of Thermo Scientific XRF and automation technology in a footprint of less than 1m². Featuring fully automated sample preparation and analysis, this cost effective system responds to the needs of users for fast and precise analysis in metals, mining, minerals and cement applications.

This easy-to-use system improves the quality of results with the inclusion of automatic sample preparation and handling, while analysis and distribution of results is automated with no user intervention required. A sample handling arm equipped with a suction device or a gripper is used to load the samples for analysis which are processed under strict identical and reproducible conditions. A fixed circular magazine provides storage of reference standards and for the occasional manual introduction of prepared samples. Standard and proven interfaces ensure easy system integration into a specific laboratory quality control environment.

Ensuring that the spectrometer permanently delivers quality results is essential to prevent scrap or waste and the need for production rework. Control samples are regularly analyzed and processed by statistical evaluation techniques (SPC) to detect eventual anomalies. Automatic standardization is triggered by the system when necessary. The integrated Thermo Scientific SMS-Omega audit trail function ensures increased traceability of the production control, facilitating the implementation of a laboratory quality system in compliance with ISO standards. The complete system can be supplied within a Thermo Scientific ARL QuantoShelter container for in-situ analysis closer to the process.

The new automated ARL OPTIM'X with SMS-Omega solution demonstrates Thermo Fisher's commitment to offering automated solutions including simple, autonomous and dedicated production control lines as well as higher performing and more sophisticated systems.

For more information on the Thermo Scientific ARL OPTIM'X with SMS-Omega, please call +1 800-532-4752, e-mail analyze@thermofisher.com or visit www.thermo.com/elemental

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Thermo Scientific is part of Thermo Fisher Scientific, the world leader in serving science.

About Thermo Fisher Scientific

Thermo Fisher Scientific Inc. (NYSE: TMO) is the world leader in serving science, enabling our customers to make the world healthier, cleaner and safer. With annual revenues of \$10 billion, we have more than 30,000 employees and serve over 350,000 customers within pharmaceutical and

biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as environmental and industrial process control settings. Serving customers through two premier brands, Thermo Scientific and Fisher Scientific, we help solve analytical challenges from routine testing to complex research and discovery. Thermo Scientific offers customers a complete range of high-end analytical instruments as well as laboratory equipment, software, services, consumables and reagents to enable integrated laboratory workflow solutions. Fisher Scientific provides a complete portfolio of laboratory equipment, chemicals, supplies and services used in healthcare, scientific research, safety and education. Together, we offer the most convenient purchasing options to customers and continuously advance our technologies to accelerate the pace of scientific discovery, enhance value for customers and fuel growth for shareholders and employees alike. Visit www.thermofisher.com.

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