Press Release

Analysis of Low-Alloy Steel with Rigaku Supermini200

The Woodlands, TX – November 8, 2012. Rigaku Corporation is pleased to announce the publication of a new application report on the new Rigaku Supermini200, the world's only benchtop WDXRF spectrometer and the latest in a series of revolutionary compact wavelength-dispersive X-ray fluorescence (WDXRF) systems from Rigaku. Application Note #5042 details the analysis of low-alloy steels, with complete information regarding sample preparation, method calibration and repeatability.

The mechanical properties of low-alloy steel are determined by the concentrations of the different elements added to the steel, some at very low levels. Precise monitoring of alloyant concentration is essential to quality steel production, but it must be done very quickly to minimize energy costs. For these reasons, WDXRF is a popular analytical technique in the metals industry.

The Supermini200 offers comparable precision and resolution, as well as excellent sensitivity for light elements – such as silicon, aluminum and phosphorus – in a lower-cost, low-maintenance benchtop package that gives steel producers a compact, convenient alternative to large, high-power WDXRF spectrometers without compromising performance. As such, the Supermini200 can be the most cost-effective solution for steel mills and commercial laboratories that analyze metal samples.

The results detailed in the report show that high precision and accurate analysis of the elements in low alloy steel can be rapidly performed using the benchtop WDXRF Supermini200.

A copy of this report may be requested at http://www.rigaku.com/products/xrf/supermini/app5042.

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,100 people in the manufacturing and support of its analytical equipment, which is used in more than 70 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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