

Press Release

WDXRF Analysis of Cement Raw Meal by Rigaku Supermini200

The Woodlands, TX – September 25, 2012. Rigaku Corporation is pleased to announce the publication of a new application report on the Rigaku Supermini200, the world's only benchtop WDXRF spectrometer and the latest in a series of revolutionary compact WDXRF systems from Rigaku. Application Note #5040 addresses the analysis of raw meal in cement production and covers sample preparation, method calibration and repeatability.

Cement is among the most important materials in the construction industry and reliable knowledge of what goes into the kiln is essential for producing the right cement for the job. Due to the nature of raw meal and the many difficulties it presents to chemical analysis, wavelength dispersive X-ray fluorescence (WDXRF) has become the analytical technique of choice in cement plants. Traditional floor-standing units, however, require considerable space and accommodations, including a special electric power supply and cooling water. The Supermini200 offers comparable precision and resolution, as well as excellent sensitivity for light elements – the largest constituents of raw meal – in a lower-cost benchtop package, giving cement manufacturers a new compact and convenient alternative to the large, high-power WDXRF spectrometers.

The pressed powder method is the most common sample preparation technique in XRF because it does not require an expensive flux, fusion machine, or highly-trained operators. The report demonstrates that cement raw meal samples can be routinely analyzed by the pressed powder method with excellent accuracy and precision on the Rigaku Supermini200 Benchtop Sequential WDXRF Spectrometer.

A copy of this application report may be requested on Rigaku's official website at <http://www.rigaku.com/products/xrf/supermini/app5040>.

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.

For further information, contact:

Laura Oelofse
XRF Product Marketing Manager, Rigaku Corporation
(281) 362-2300
Laura.Oelofse@rigaku.com
www.rigaku.com