



THE BRIDGE

MATERIALS ANALYSIS eNEWSLETTER
AUGUST 2013, ISSUE 2

NEX QC⁺ – Energy Dispersive X-ray Fluorescence Analyzer

New high-resolution benchtop EDXRF for rapid qualitative and quantitative elemental analysis

For more demanding applications, or for situations where analysis time or sample throughput is critical, Rigaku offers the new NEX QC+ spectrometer. Employing the next generation silicon detector technology, the enhanced NEX QC+ affords significant improvement in elemental peak resolution and counting statistics, resulting in superior calibrations and measurement precision for the most challenging measurements.



EDXRF for quality control applications

Specifically designed for routine quality control applications, the new Rigaku NEX QC+ features an intuitive "icon-driven" touch screen interface for easy operation and a built-in printer for convenience.

EDXRF with high precision and broad elemental coverage

The shuttered 50 kV X-ray tube and Peltier cooled semiconductor detector deliver exceptional short-term repeatability and long-term reproducibility with excellent element peak resolution. This high voltage capability (50 kV), along with multiple automated X-ray tube filters, provides a wide range of applications versatility and low limits-of-detection (LOD).

EDXRF with autosampler, helium and FP options

Options include fundamental parameters, automatic sample changer, sample spinner and helium purge for enhanced light element sensitivity.

NEX QC+ for high performance quality control applications

In addition to being remarkably easy to use, each Rigaku NEX QC series elemental analyzer is powered by sophisticated software running on an embedded computer. Empirical calibration curves may be linear, quadratic or hyperbolic fits.

To compensate for the presence of other elements, intensity-based or concentration-based alpha (α) corrections may be enabled (automatically calculated given sufficient standards).

C/H correction is also available to compensate for light element matrix changes and/or changes in average atomic number. All calibration functions are accessible via intuitive icons at the touch of a finger. An optional fundamental parameters (FP) package is available.

[Click here for more information on the Rigaku NEX QC+](#)