



NEWS RELEASE

Bruker Launches the S2 POLAR™ High-Performance, Multi-Element Benchtop EDXRF Analyzer for the Petrochemical Industry

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GALVESTON, Texas, Oct. 16, 2018 /PRNewswire/ -- At the Gulf Coast Conference, Bruker announces the launch of the **S2 POLAR™**, a new multi-element benchtop analyzer based on polarized Energy Dispersive X-Ray Fluorescence (EDXRF). The **S2 POLAR** offers the same excellent analytical precision for quality control in the petrochemical industry, which is typically only achieved by more expensive Wavelength Dispersive X-Ray Fluorescence (WDXRF) instruments.

The **S2 POLAR** analyzes Ultra-Low Sulfur (ULS) content and achieves detection limits in the sub-ppm range for gasoline, kerosene, and diesel. Its performance exceeds various international norms and regulations, making the **S2 POLAR** also suitable for future requirements. With its capability to measure multiple elements simultaneously, including chlorine for corrosion prevention and phosphorus against residue build-up, the **S2 POLAR** is well suited for the analytical demands of refineries, as well as for the downstream supply chain of pipelines, oil terminals and petrol stations. Remarkably, the **S2 POLAR** combines the performance of several single-element analyzers in a single powerful benchtop instrument.

Another application requiring the high precision of the **S2 POLAR** is at oil manufacturers and oil blenders, where the measurement of additives in lubricating oils, e.g. magnesium, calcium, zinc, and molybdenum, is important for the efficient use of additives and the minimization of production costs.

The **S2 POLAR** delivers compliant analysis for all relevant ASTM, DIN, IP, JIS, and ISO norms. Bruker's multilingual **TouchControl™** interface and factory calibrated application packages for the ASTM norms D7220, D4294, D6481, and D7751 ensure "plug-and-play" operation. Its **SampleCare™** component protection supports high instrument uptime and robustness.

Frank Portala, EDXRF Product Manager of Bruker AXS, commented: "The performance for multi-element analysis of virtually all petrochemical products in a compact benchtop instrument makes the **S2 POLAR** the perfect choice for refineries, petrochemical producers, and oil manufacturers. Its excellent precision enables the analysis of ULS fuels, and quality control of additives in oils. With the **S2 POLAR**, Bruker further extends its strong commitment to XRF applications in the petrochemical industry."

For more information about the **S2 POLAR**, please visit www.bruker.com/s2polar.

About Bruker Corporation (NASDAQ: BRKR)

Bruker is enabling scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. Bruker's high-performance scientific instruments and high-value analytical and diagnostic solutions enable scientists to explore life and materials at molecular, cellular and microscopic levels. In close cooperation with our customers, Bruker is enabling innovation, improved productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy and nanoanalysis, and in industrial applications, as well as in cell biology, preclinical imaging, clinical phenomics and proteomics research and clinical microbiology. For more information, please visit: www.bruker.com.

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