Press Release

Analyzing & Testing

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The New STA 449 ***F5*** *Jupiter***: The No-Nonsense Model for Simultaneous Thermal Analysis**

Designed in the well-established vertical instrument configuration, the new NETZSCH STA 449 ***F5*** *Jupiter* provides ultimate ease of use. The instrument has been optimized to offer a broad variety of measurement tasks at an outstanding cost-to-performance ratio.

Many applications in the fields of ceramics, metals and composites require a temperature range up to 1600°C as well as a sensitive sensor for detecting small-scale effects. The STA 449 ***F5*** *Jupiter*, newly introduced to the NETZSCH product range alongside the modular STA instruments of the F1 and F3 series, meets these demands. Two instrument versions (with and without automatic sample changer), each including a TGA-DSC sensor, are available. In lieu of the TGA-DSC sensor, a pure TGA or a TGA-DTA can optionally be employed.

The core of the instrument is a top-loading highly sensitive low-drift micro-balance. The top-loading design, in combination with a rotating motorized furnace hoist, allows for the sample – and, if necessary, the sensor – to be changed easily and safely. In order to implement measurement routines quickly, the TGA-*BeFlat*® – a novel development for the F5 system – avoids carrying out baseline corrections.
The STA 449 ***F5*** *Jupiter* additionally comes standard-equipped with both *AutoVac* for automatic evacuation and refilling of the measurement system and mass flow controllers (MFCs) for precise control over purge and protective gases. This allows for the simultaneous determination of caloric effects and mass changes under both oxidizing and inert atmospheres.

Its many years of experience in the field of simultaneous thermal analysis have made NETZSCH Gerätebau to a market leader providing guaranteed reliability in their measuring instruments and comprehensive support.

Further information on: www.netzsch.com/n22655

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