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Chemical Analysis Division

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Thermo Fisher Scientific Extends Rheometer Accessory Range for UV-Curing Cells
Meets Increased Industry Demand for UV-Curing

KARLSRUHE, Germany, (November 8, 2011) - Thermo Fisher Scientific Inc., the world leader in serving science, today announced that it has extended its rheometer accessory range to support UV-curing cell requirements. This meets increasing industry demand to replace thermal curing with UV-assisted thermal curing processes to increase productivity and be more environmentally sustainable.

With common oscillatory shear methods, it is often difficult to monitor UV-induced reactions that may occur in just a few seconds during coating processes, such as in dentistry. Thermo Fisher developed a "Fast-Oscillation-Mode" for its high-end Thermo Scientific HAAKE MARS rheometer to address this challenge. The new "Fast-Oscillation-Method" allows for a higher data acquisition rate of 500 Hz – independent of the oscillation frequency – to meet the specific needs of very fast curing materials.

Customers now can select between four UV-measuring set-ups:

- The standard version of a UV-measuring cell is mounted onto a temperature control unit (liquid, electrical or Peltier plate) and is suitable for UV-curing materials such as inks at ambient temperature.
- A UV-cell for thermal-assisted curing processes at higher temperatures available for the HAAKE MARS. It is integrated into the rheometer's controlled test chamber (CTC) and covers a temperature range from -150°C to 600°C.
- A customizable UV-cell with freely configurable distances for optical components such as light guides, condensers and glass plates simulates the arrangements of optical components in production processes, such as those used to manufacture contact lenses.
- The new module for the HAAKE MARS rheometer platform has been developed for measurements on UV-curing materials. As it is being mounted to the measuring head, it can be used with the rheometer's Rheonaut module that allows for simultaneous measurements of rheological properties and FT-IR spectra to investigate structural changes within the sample.

A commercially available light source can be attached and triggered via the Thermo Scientific HAAKE RheoWin measuring and evaluation software. Applications such as powder coatings,

adhesives, sealants, soldering materials and inks or contact lenses are supported with these measuring cells.

Thermo Fisher Scientific, one of the pioneers in rheology, successfully supports a wide range of industries with its comprehensive Thermo Scientific material characterization solutions. Material characterization solutions analyze and measure viscosity, elasticity, processability and temperature-related mechanical changes of plastics, food, cosmetics, pharmaceuticals and coatings, chemical or petrochemical products, plus a wide variety of liquids or solids. For more information, please visit www.thermoscientific.com/mc.

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Thermo Scientific HAAKE MARS Rheometer