


**1 | Mercury porosimetry**

PoreMaster 60

Measurement of electrode porosity and separator pore volume

**2 | Capillary flow porosimetry**

Porometer 3G zH

Analysis of separator through-pore size

**3 | Differential scanning calorimetry**

Julia DSC 500 with Autosampler

Analysis of thermal properties of separators

**4 | Rolling-/falling-ball viscometry**

Lovis 2001 and Xsample 5100

Analysis of electrolyte viscosity

**5 | Liquid density measurement**

DMA 4200 M

Measurement of electrolyte density and concentration

**6 | Battery measurement**

DMA 5002, Abbat 5201, and Xsample 3200

Measurement of electrolyte density and concentration for multi-component mixtures

**7 | Flash point testing**

PMA 500

Analysis of flash point of electrolytes

**8 | Inline density measurement**

L-Dens 7400

Measurement of inline density and concentration of electrolytes

**9 | Surface and scratch testing**

MCT<sup>3</sup> on Step 500

Micromechanical mapping, nanoindentation, and scratch testing

**10 | X-ray diffraction**

XRDynamic 500

Operando cell characterization

**11 | Small-angle X-ray scattering**

SAXSpoint 700

Operando characterization of battery components

**12 | Dynamic mechanical analysis**

MCR 703 MultiDrive

Dynamic mechanical material characterization

# Battery Components and Finished Cells

Advanced characterization techniques

Advanced measurement solutions for R&D, quality control, processing, and final inspection to ensure consistent performance across every stage of production



Find out more