



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, Abbatmat 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

[MCT³ 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



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