



Battery Production Solutions

Industry Process Made Simple



Research & Development

Mining & Refining

Material Production

Product Assembly

Use & Recycling

We Simplify Science

Rapid Solid-State Synthesis and Refinement

Solid-state Synthesis | Calcination | Sintering | Annealing



Phoenix BLACK™

Microwave Muffle Furnace

Access solid-state transformations at the speed of light. Utilizing microwave irradiation, the Phoenix BLACK efficiently reaches temperatures up to 1200 °C and allows complete customization of temperature set points, ramp periods, and more. A gas purge option is available for greater atmospheric control with a variety of inert gases.



cem.com/phoenix-black

Robust Solids Analyzer with Precise Temperature Control

Electrode Binders | Dried Slurry Coatings | Anode & Cathode Slurries | Conductive Additives



SMART 6™

Microwave + Infrared Moisture & Solids Analyzer

Rapid solids analyzer designed to provide accurate results in as little as three minutes. Microwave energy heats the sample quickly, while active monitoring and infrared energy helps maintain tight sample temperature control. With little maintenance required for the robust system, intuitive software, and a low cost per test, return on investment is quickly realized.



cem.com/smart-6

Efficient Digestion for Trace Metals Analysis

Mined Metals & Ores | Cathode & Anode Materials | Electrolyte Solutions
Separators/Membranes | Recycled Materials



BLADE™

Sequential, R&D, Method Optimization
Microwave Digestion System

Load up to 24 varied samples into the system and watch the digestion in real time. Each sample can have different acid combinations and be programmed with a unique digestion sequence. Every sample is individually monitored and controlled for temperature, pressure, and power.



cem.com/blade



MARS 6™

Parallel, High Throughput
Microwave Digestion System

The perfect solution for labs that process similar samples in large quantities. Process up to 24 samples simultaneously at high temperatures and pressures to ensure complete digestion of most materials. The system displays and records the temperatures of each sample.



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