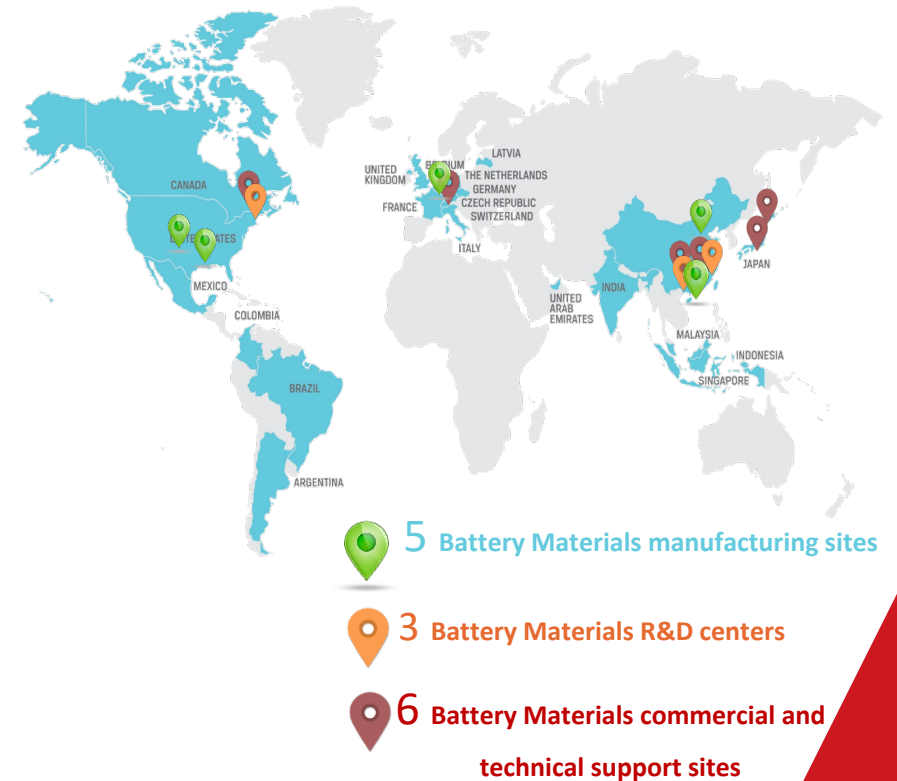


Cabot Battery Materials

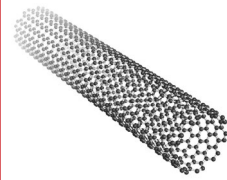
Patricia Hubbard, CTO

February 8, 2022

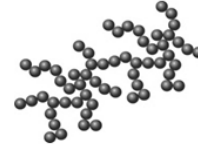


CABOT TECHNOLOGY ADDRESSES CATHODE NEEDS

Cathode materials



ENERMAX™
Carbon
Nanotubes (CNTs)



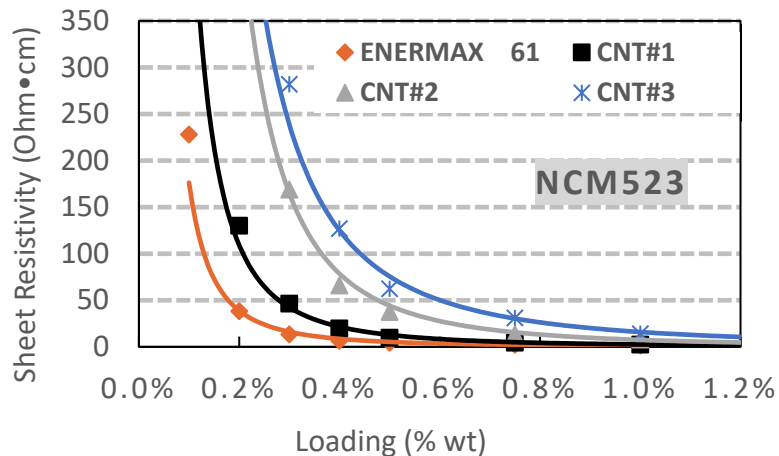
LITX® Carbon
Blacks



SpectraI® Fumed
Alumina

IMPROVED CONDUCTIVITY

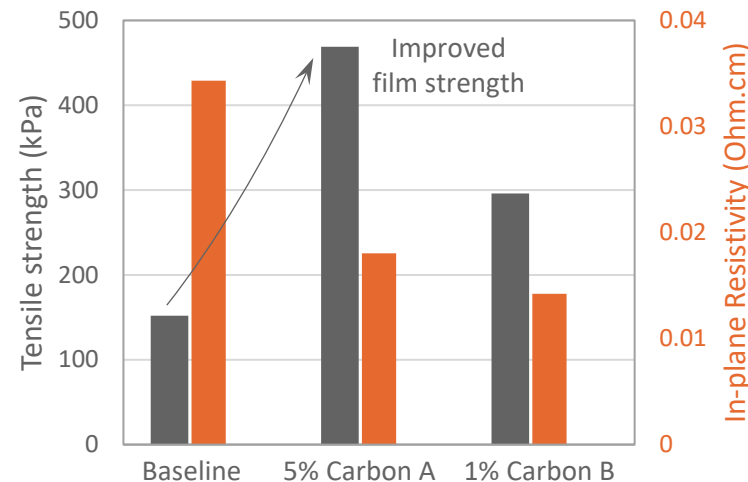
- ◆ Deliver improved electronic conductivity through innovations in **CNTs** and **CBs**
- ◆ Qualified with 6 out of global top 8 Li-ion battery manufacturers



Cabot Corporation

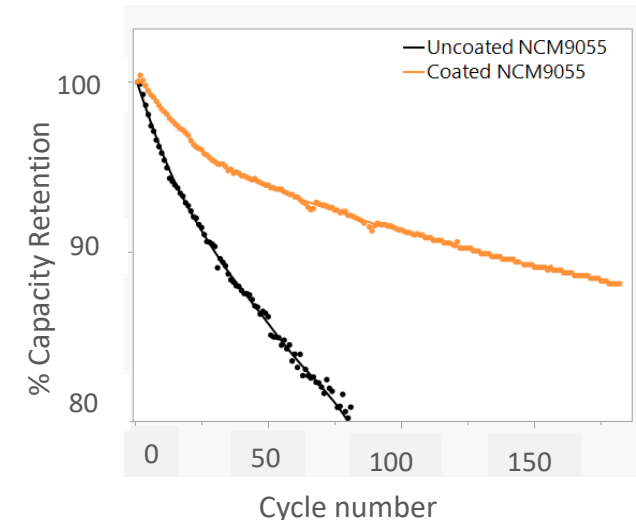
DRY PROCESSING

- ◆ Continue to innovate **multifunctional carbons** to enable dry electrode processing



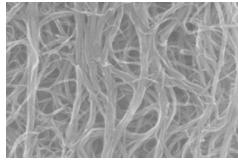
ACTIVE MATERIAL COATING

- ◆ Enhance cycle life of high nickel active materials through surface coating **fumed alumina** or nanoscale mixed metal oxides

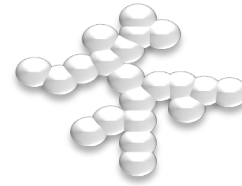


TECHNOLOGY FOR ANODES, SOLID STATE BATTERIES, AND FUEL CELLS

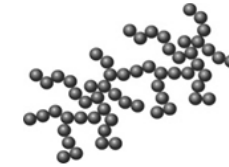
Performance materials



Carbon Nanostructures (CNS)



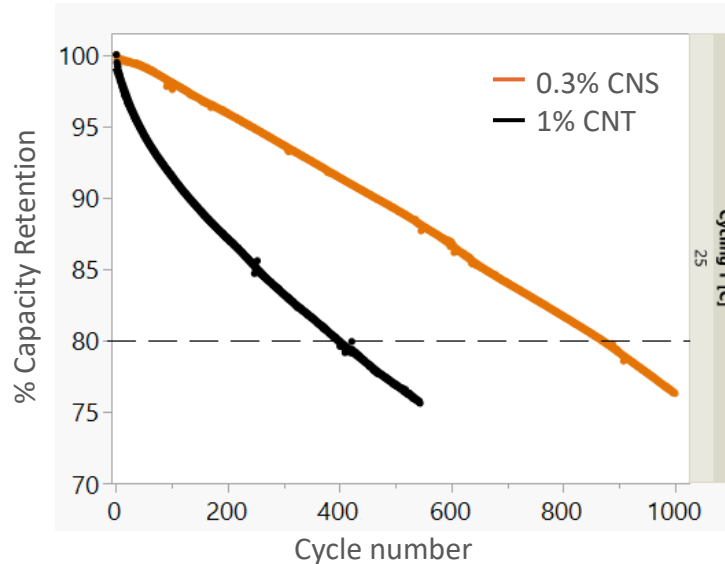
SpectraAl® Fumed Metal Oxides



FCX® Carbons

SILICON ANODE

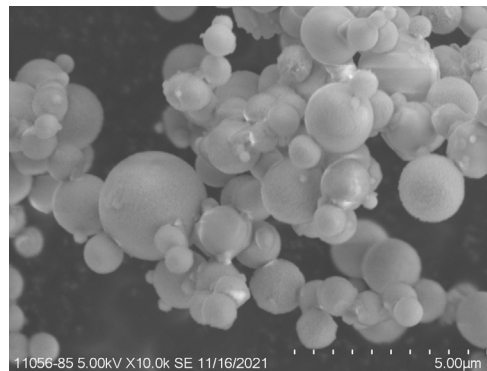
- ◆ Enable high cycle life of silicon-containing anodes with **CNS aqueous dispersion**



Cabot Corporation

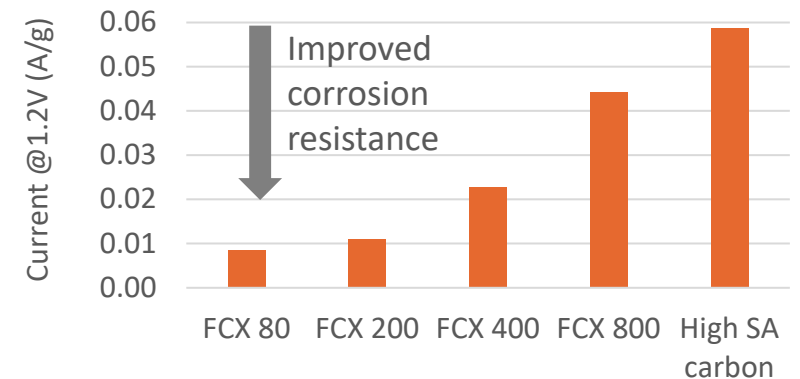
SOLID STATE BATTERY

- ◆ Deliver **carbons** compatible with solid state electrolyte
- ◆ Develop cathode particle coating for compatibilization with solid state electrolyte
- ◆ Enable **ceramic electrolyte** production through proprietary reactor technology



FUEL CELLS

- ◆ Advance our **carbon** technology to meet the requirements of increased corrosion resistance
- ◆ Optimize morphology of carbons to enable different levels of active phase loading



Cabot is committed to:

Creating materials that improve daily life
and enable a more sustainable future.