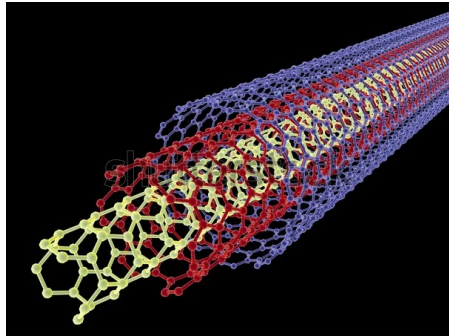


Progress in Onshoring Component Manufacturing



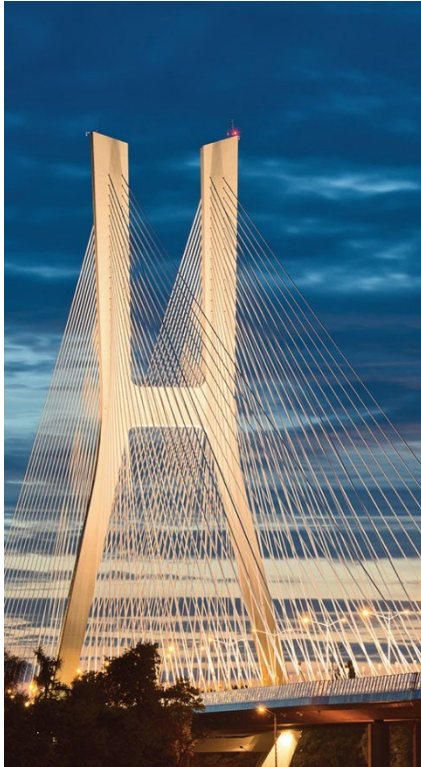
Adhesives, Battery Components, Composites, Coatings, Foams, Resins

Huntsman Businesses



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Polyurethanes



- MDI/Polyols
- MDI-based systems
- Thermoplastic Polyurethanes (TPUs)
- Elastomers
- Battery Pack Fill Foam

Performance Products



- Specialty Amines
- Maleic Anhydride
- Alkylene Carbonates
- Electrolyte Additives

Advanced Materials



- Composites
- Adhesives
- Resins
- Battery Cell Components

JEFFSOL® MEOX

2024 Update

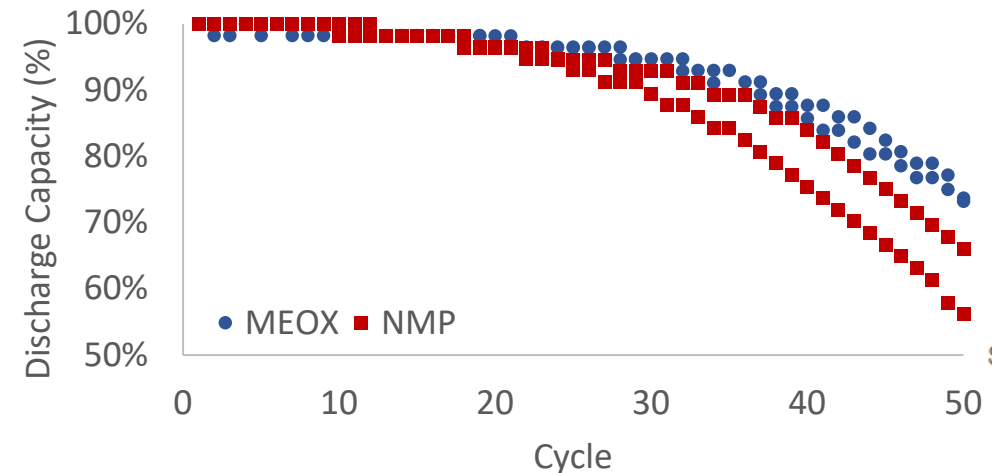
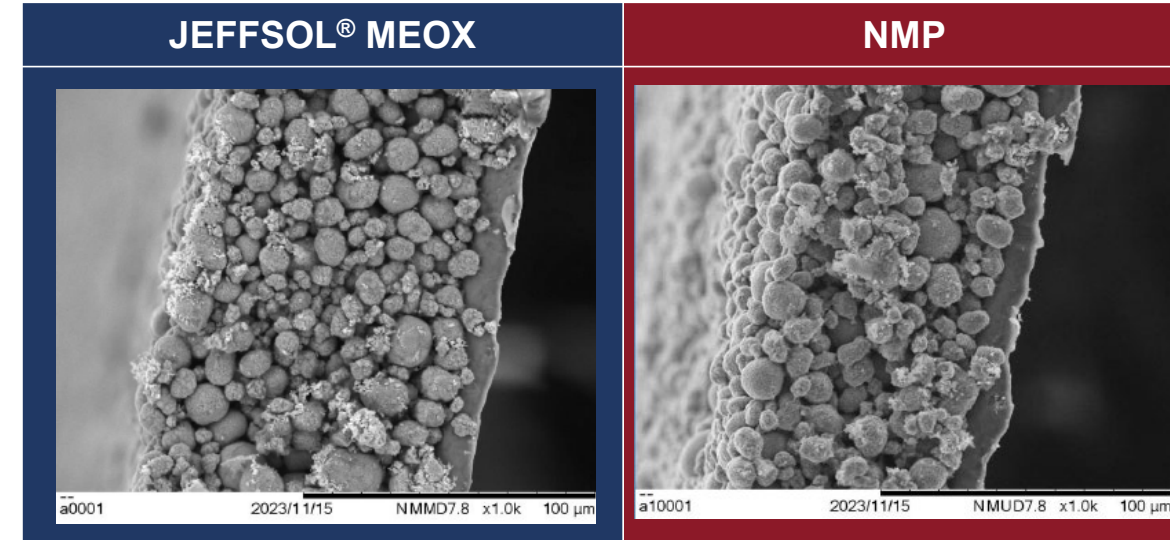
- Joint publication with Warwick University
- Validated compatibility with existing equipment/processes in computational model
- Demonstrated excellent cycling performance for both LFP and NMP cast with MEOX

2025 Outlook

- Extend testing to larger scale format
- Pilot trials with commercial partners



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Article on
JEFFSOL® MEOX as a
Substitute Solvent for NMP
in Battery Manufacturing

MIRALON® Battery Materials:

- Dispersions:
 - NMP
 - Water
 - MEOX or alternative solvents available

- Functionalization and purification capabilities
- Sheet/Tape - scale up initiated
- Dry electrode processing collaborations



Pilot Plant Reactor Operational

MIRALON® Pulp:

- Pilot 30t/y reactor commissioning in San Antonio, TX
- Process qualifications in 2025
- Production ramp up to 30T annual output of carbon

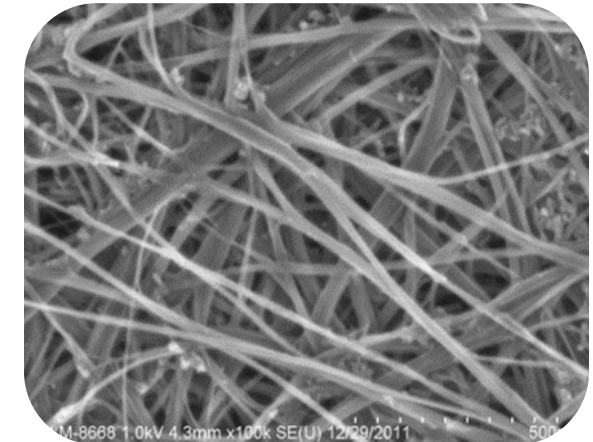
BATTERY DISPERSIONS

- Formulation Flexibility
- Production scale up in NA and EU ongoing
- Sampling of dispersions for LFP/LMFP cathodes
- Tested and commercial for NMC cathodes



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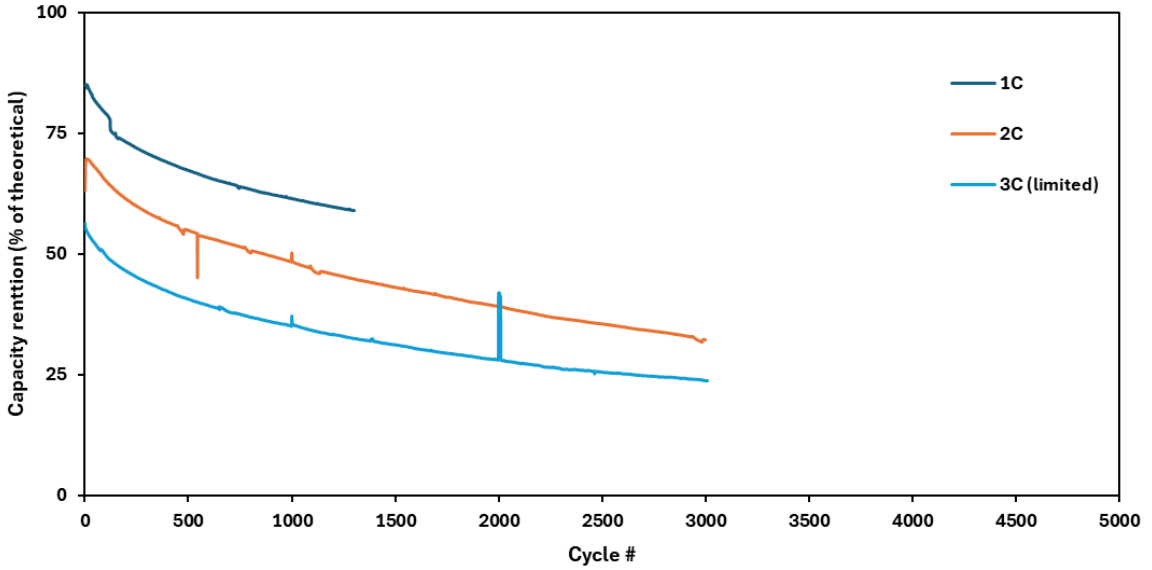




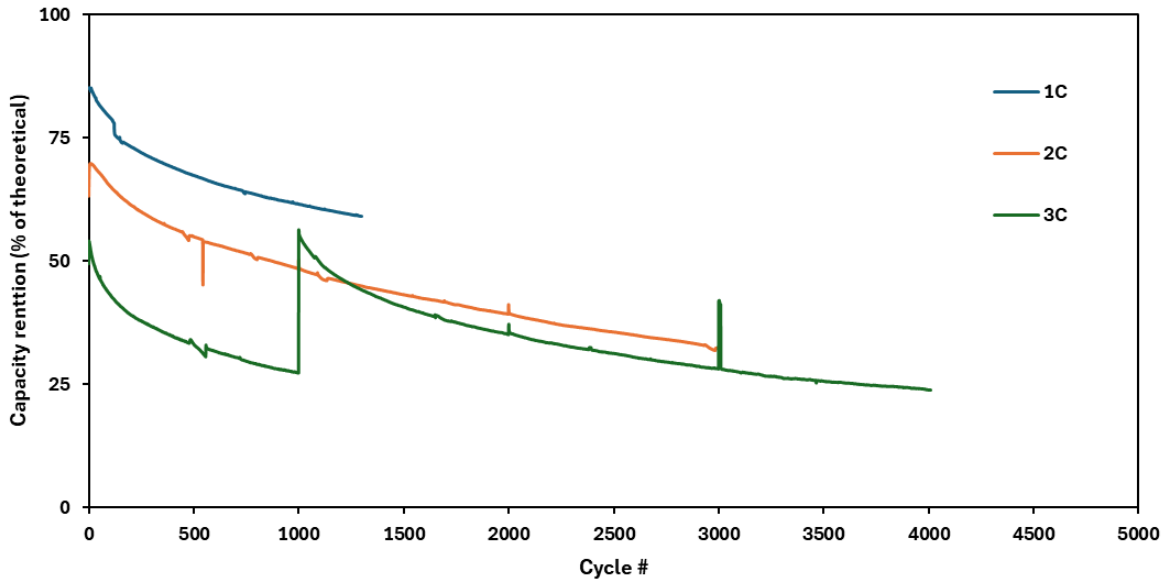
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LFP Cells – cycle life tests at high rates

CC LFP 1C/2C/3C cycling



CC LFP 1C/2C/3C cycling

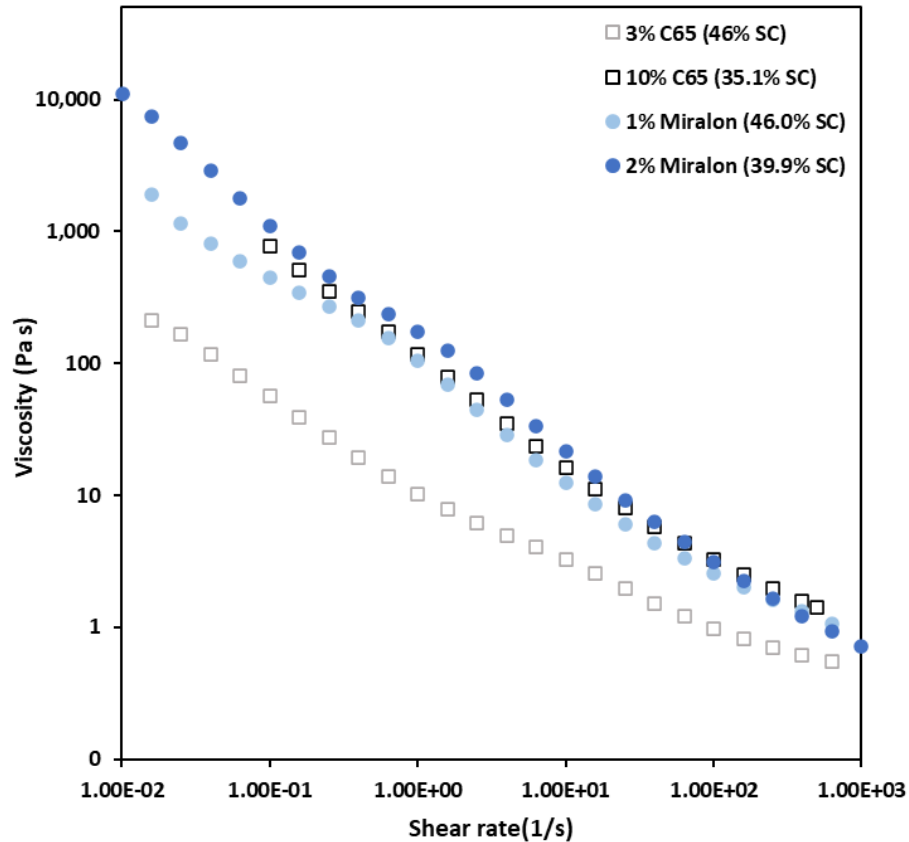


94.25% LFP cathodes (2.05 mAh/cm^2) prepared by Custom Cells GmbH with 3.6% Solev® 5130 PVDF, 1.5% C65 CB and 0.5% MIRALON(R) Pulp in NMP with Jeffspers® 3200 dispersant.

Multi-layer pouch cells with commercial electrolyte, and graphite anodes. Cells build at CC and at HATC R&D Lab and tested.

MIRALON® Dispersion in LMFP cathode slurry

LMFP slurry Viscosity



Value Propositions:

- Enables higher CAM content
- Similar rheology to heavy CB slurries
- Enables casting of thick electrodes
- Compares well with imported SWCNT
- Required to achieve good electrode pore structure with low resistivity

Innovation to Meet Capacity and Performance Needs

Increasing Cell Capacity

Performance



Productivity



- Similar performance to SWCNT with MWCNT economics
- Lower carbon loading increases active content by 2-3% increasing energy density by similar percentage
- Demonstrated performance from 0.1% to 1% MIRALON® content, giving formulating flexibility

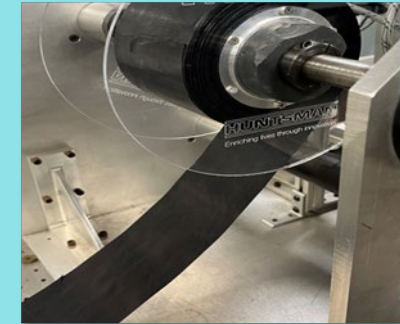
Sustainability Solutions



- Up to 90% reduction in the carbon footprint versus carbon black*
- MIRALON® CNTs are co-produced with Hydrogen

*dependent on the grid supply

Reducing Cell Weight



Lightweight Carbon Current Collector:

- Innovative lightweight CNT tape, weighing 12 g/m²
- Tested on Lithium-Sulfur cathodes and silicon anode batteries

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