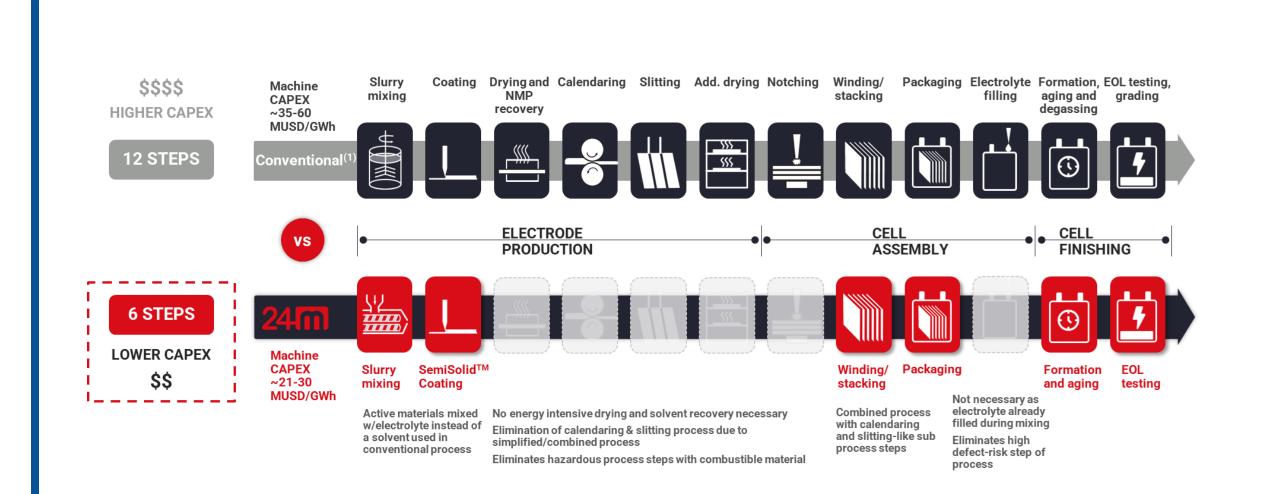
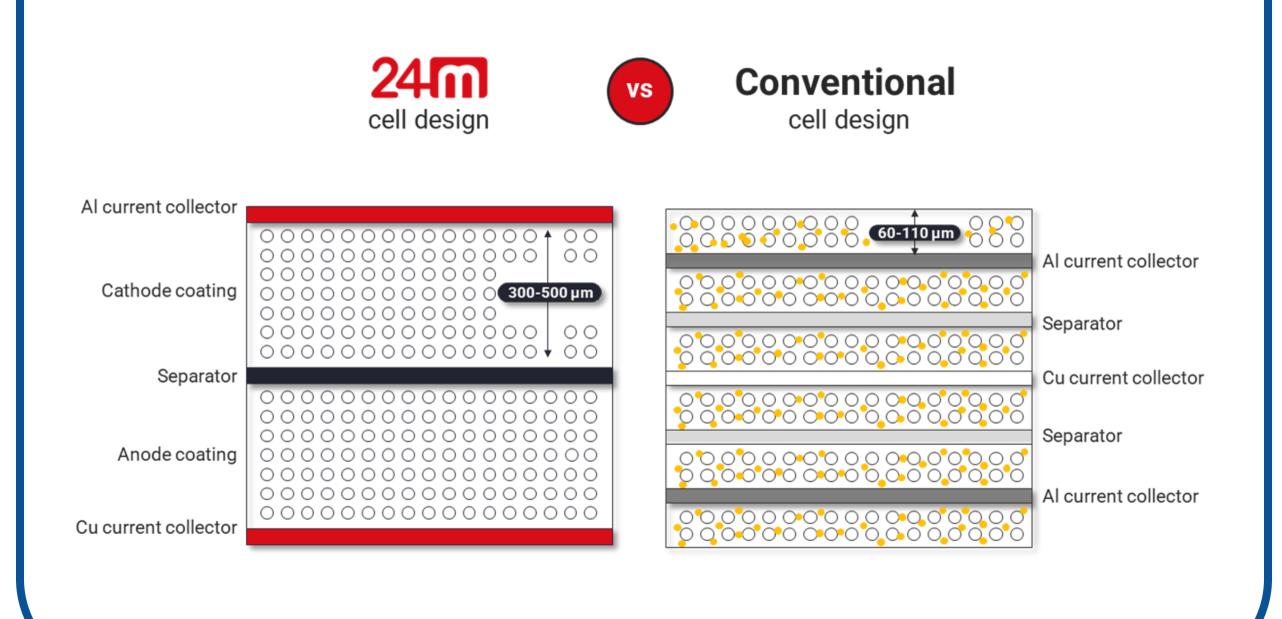


High Energy & Power Density Lithium Metal Cells to Enable Transformative Energy Storage Products for the Aerospace Industry

SemiSolid Platform Technology <



24M's patented SemiSolid™ manufacturing process to produce ultra-thick, fully recyclable electrodes capable of achieving 2-3x areal capacities as conventional electrodes, while eliminating multiple processing steps and the need for environmentally harmful solvents such as NMP. Additionally, SemiSolid™ electrodes reduce the weight and volume of inactive materials such as foils and separators.



High Density Pack Design

24M ETOP™

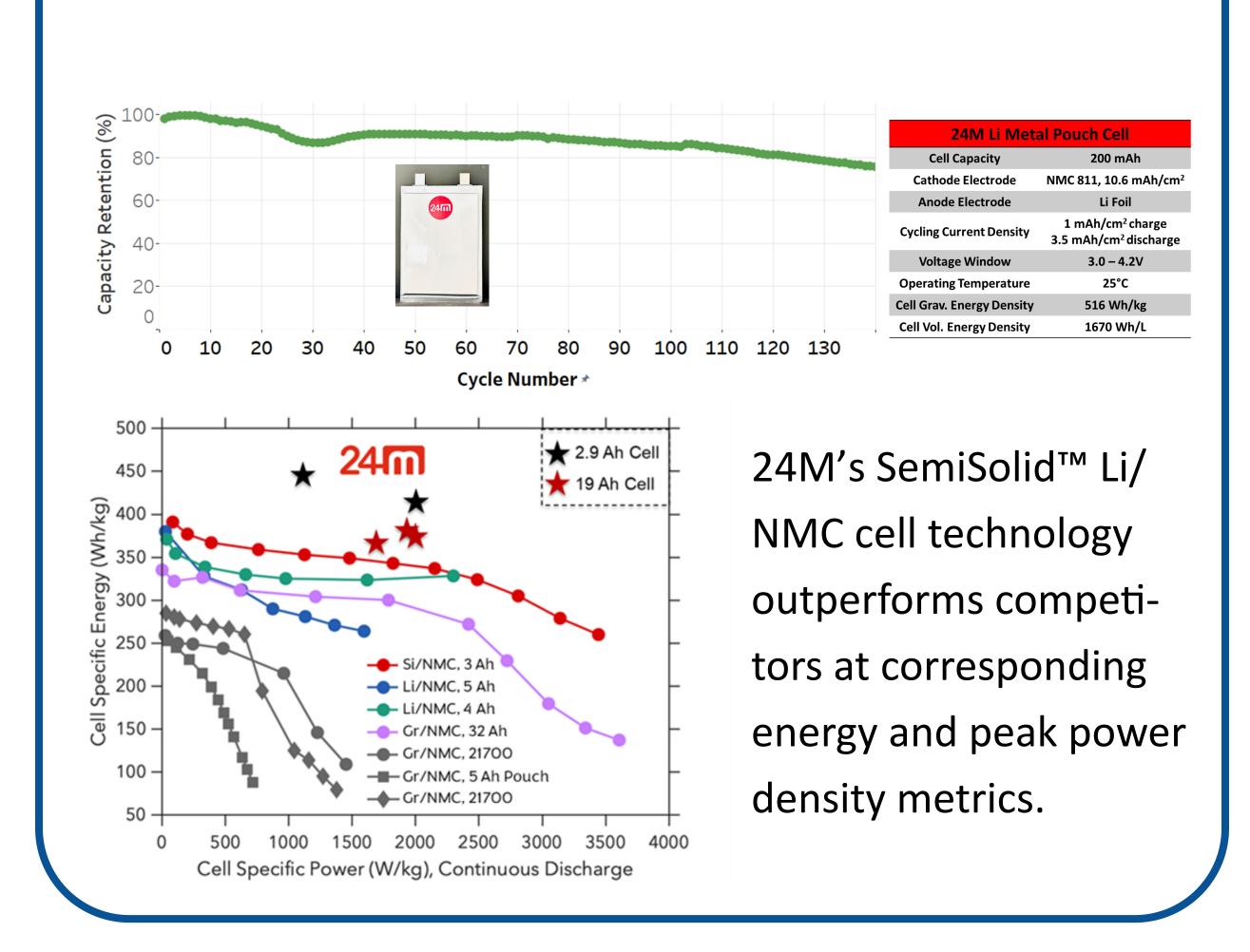
24M's Electrode to
Pack ("ETOP™") technology is a streamlined battery pack system that features
electrodes packaged
directly into the



battery pack, removing the need for individual cells and modules and eliminating unnecessary packaging materials.

Superior Li Metal Energy Density

Incorporation of 24M's ultra-thick, high areal loading (>10 mAh/cm²) SemiSolid™ NMC-811 Cathode enables unit cell technology to achieve > 500 Wh/kg and > 1600 Wh/L. 24M has scaled up the manufacturing of Li metal cells on their Cambridge pilot line to ~300 cm² form factor.

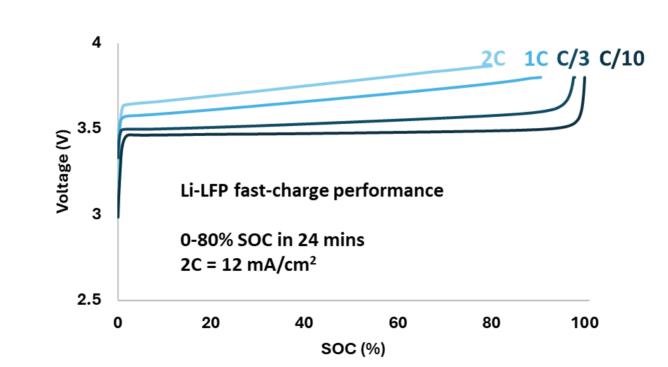


High Performance Electrolyte -

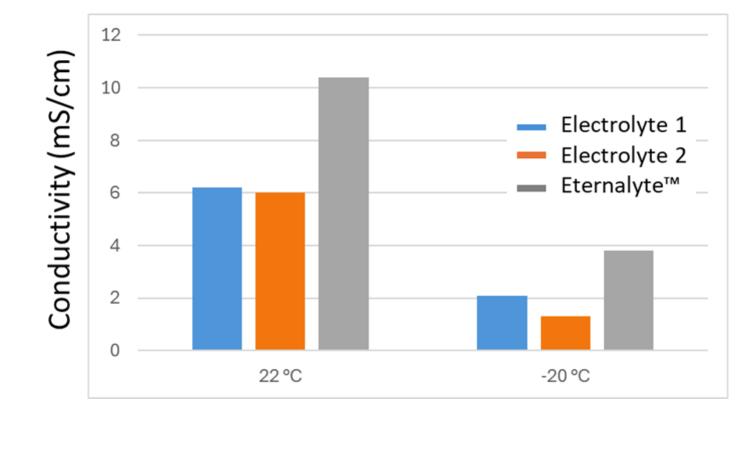
Eternalyte[™] is a transformative new electrolyte for Li-metal batteries which enables significant improvements in cycle life, rate capability, and low-temperature performance.

Charge Rate Capability

Eternalyte™ enables fast charging of lithium-metal cells, including at extreme current densities



Low-Temperature Performance



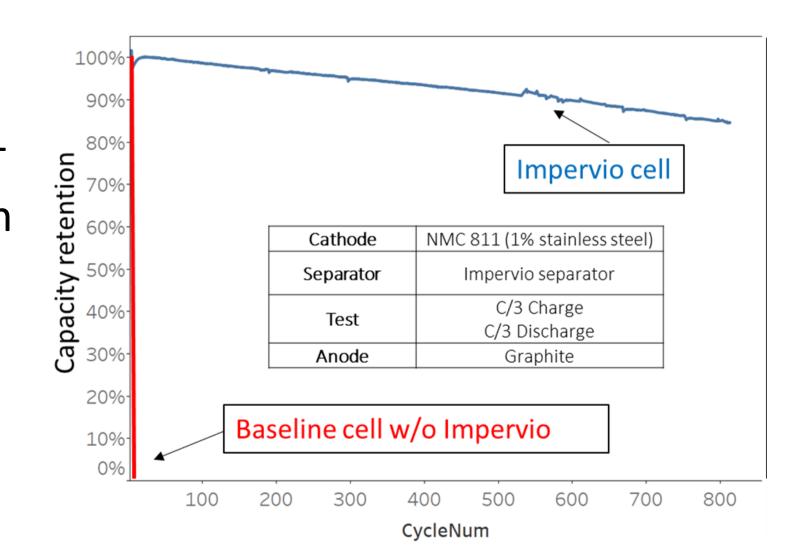
Eternalyte™ has excellent ionic conductivity, including at low temperatures

Impervio[™] Separator for Safety

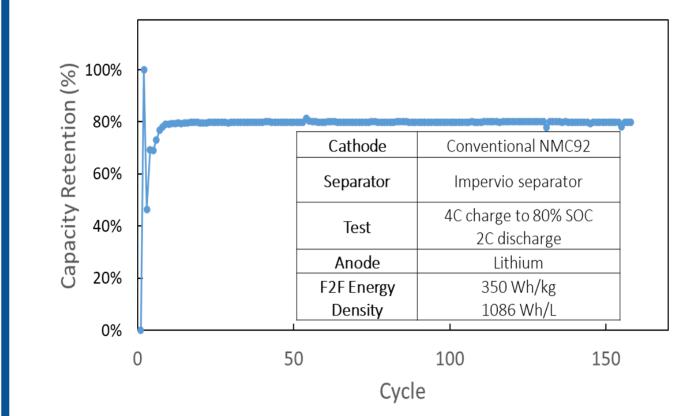
Impervio[™] is a proprietary functional separator technology that provides a fail-safe approach to battery safety by:

- . **Dendrite prevention**: Starts at the source with a proprietary separator technology that impedes the growth of dendrites.
- . **Early fault detection**: Continuously monitors the cell and detects a potential short before it occurs and enables a safe discharge and shutdown of the individual battery cell.
- Integrates with lithium-metal and conventional lithiumion batteries: Offers the same safety benefits for conventional lithium-ion and lithium-metal cells as it does for 24M SemiSolid™ cells.

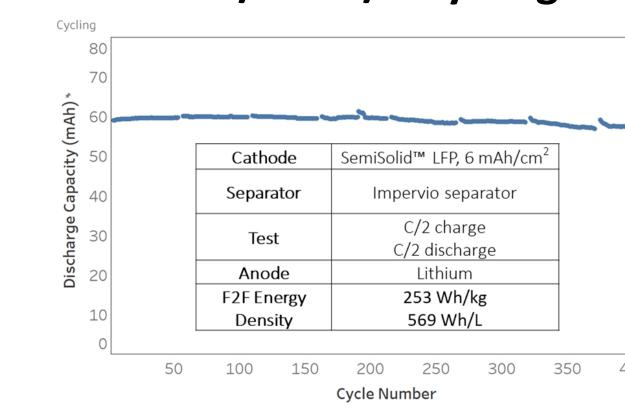
Impervio[™] separator tor technology prevents shorting even in heavily contaminated cells



Li/NMC Fast Charge Cycling



Li/LFP C/2 Cycling



Impervio™, in combination with Eternalyte™ electrolyte enables stable cycling of lithium metal anodes, including under fast charge conditions.