



ULTRANODE

ULTRANODE™ 95

Superior Wh/kg for superior flight time

Ultranode 95 is a **high silicon anode product**, offering superior Wh/kg and supply chain security while simplifying anode manufacturing processes. Ultranode 95 offers a performance profile uniquely suited for use in drones and other high energy, high performance applications.



ULTRANODE 95 - A UNIQUE VALUE PROPOSITION

Lowest \$/kWh silicon active material

Highly cost-effective anodes increasing profitability



Supply chain security

Existing qualified silicon raw materials supply from US, KR, EU and AU



Superior Wh/kg at anode/cell level

>2,400 mAh/g of anode coating capacity available



Highly customisable

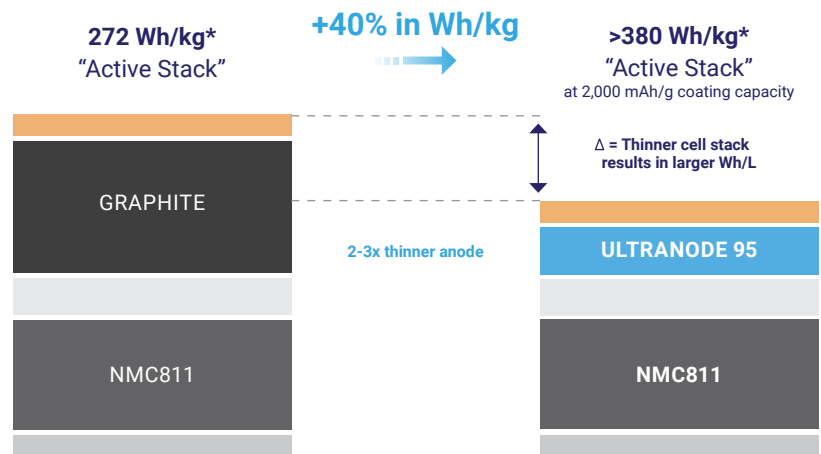
Easily modified coating capacities

Secure energy gains without the complexity and cost of highly engineered silicon materials or anodes

Unit stack (single layer cell)

Graphite/NMC811 Cell vs. Ultranode 95/NMC811 Cell

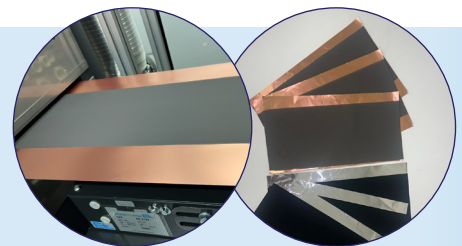
Considers: 1 anode, 1 cathode, 1 separator, Cu/Al current collectors and electrolyte



Contact us for sample trials

1. A4 Ultranode 95 hand-sheets sample packs
2. A4 Ultranode 95 hand-sheets & matched cathode packs
3. Custom roll-to-roll coating runs

Demonstrated roll-to-roll scalability.



WHAT ULTRANODE™ 95 CAN DELIVER

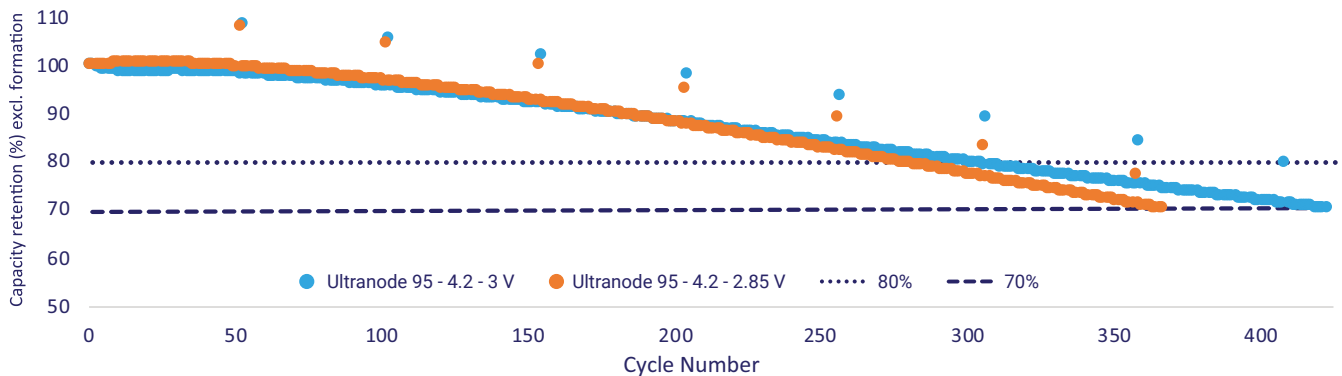


Ultranode 95 paired with NMC811

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Ultranode 95 delivers 200-300 cycles at 80% capacity retention with high energy coating capacities achieved exceeding 2,000 mAh/g whilst maintaining high first cycle efficiencies of ~90%.

Ultranode 95 vs NMC811 - Capacity Retention



ULTRANODE 95	Formation cycle discharge capacity @C/20 (mAh/g)	1 st cycle discharge capacity @C/5 (mAh/g)	1 st cycle discharge capacity @1C (mAh/g)	Initial coulombic efficiency (%)	Cycle number at 80% capacity retention (excl. formation)	Cycle number at 70% capacity retention (excl. formation)
Ultranode 95 (4.2 V - 2.85 V)	2,028	1,874	1,733	88.8	275	367
Ultranode 95 (4.2 V - 3.00 V)	2,063	-	1,637	88.9	296	423

ULTRANODE™ 95'S COMPETITIVE ADVANTAGE



Cost effective

Ultranode 95 uses up to 90% cheaper active material powder and is up to 70% cheaper (\$/m²) compared to same anode specification when compared to adv. Si/C active materials



Supply chain security

AnteoTech's active material is sourced from qualified suppliers at commercial scale in US, EU, KR, AU and others



High energy + performance

Up to 95% silicon content delivers high energy and high performance. Specific anode coating capacities that deliver >2,400 mAh/g available



Sustainability

Up to 90% reduction in kg CO₂e/m² of anode compared to artificial graphite*²



Uses conventional manufacturing processes

Ultranode 95 uses conventional slurry-based anode manufacturing processes with no new CAPEX investment required



Highly customisable

Ultranode 95 design can be easily customised (without redesigning the active materials properties)

¹ Up to 5x cheaper Si active material powder compared to adv. Si/C materials ¹ Based on electrodes with equivalent area capacities, Si active material content and anode formulation ² CO₂e/m² values vary with source of active materials and electricity grid mix but can be as low as 3.1 kg CO₂e/kg mSi