

Maximizing High Silicon Anode Performance

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Product portfolio in silicon enabling technologies

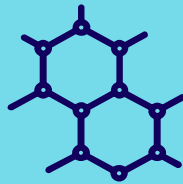
Established
and growing
business



Publicly listed company (ASX:ADO)

- Chemical and materials solutions business in Battery Technology and Life Sciences
- Headquartered in Brisbane, Australia

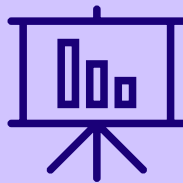
Proprietary
technology



Portfolio of Lithium-ion battery (LIB) products

- **Anteo X** – Cross-linker for high silicon anodes
- **Anteo S** – Cross-linker for ceramic coated separators
- **SiMRAX** – Anteo X + SWCNT combined product for silicon anodes
- **Ultranode** – Ultra-high silicon content anode technology (70% - 95% silicon)

Innovating for
the next
generation of
batteries



Deep expertise in battery chemistry and electrode development

- >20wt% silicon active material anode focus
- Performance optimization of silicon anode designs
- Collaborations with novel cathode active material suppliers
- Anteo X and Anteo S production facility with commercial-scale supply capacity
- SiMRAX GWh production scale-facility, operated by US technology partner

Leading Cross-linking Technology Products for Electrodes and Ceramic Separator Coatings

NEW S

ANTEO STM

Cross-linker for Ceramic Coated Separators (CCS)

Safer and Thinner Separators

- Reinforces ceramic coating, reducing potential thermal runaway and fires.
- Improves mechanical strength, puncture strength and thermal shut-down window



ANTEO X[®]

Cross-linker for Silicon Anodes

Improved Performance

- Improved cycle life/capacity retention
- Reduced anode expansion

Improved Cost Efficiency

- Reduction in CNT content for high silicon anodes
- Reduction in binder content for high binder systems



NEW

SIMRAX

Anteo X + SWCNT Combination Product

All-in-one solution for high Si anodes

- The world's only additive combining high quality carbon nanotube products with unique cross-linking agents
- World's most efficient binder strengthening additive. A single 'drop in' product that improves performance and reduces costs

Leading Cross-linking Technology Product Portfolio for Electrodes and Ceramic Separator Coatings



ANTEO STM

Cross-linker for Ceramic Coated Separators (CCS)

NEW



ANTEO X[®]

Cross-linker for Silicon Anodes

➤ Improved Performance & Cost Efficiency



SIMRAX

Anteo X + SWCNT Combination Product

NEW

Anteo X[®] - Cross-linker for Silicon Anodes

A performance additive reinforcing binder efficacy in silicon anodes



Performance

- Improved cycle life/capacity retention
- Reduced expansion



Ease of use

- “Fits” into conventional manufacturing processes
- Broad binder compatibility
- Heat activated between 50 - 120 °C



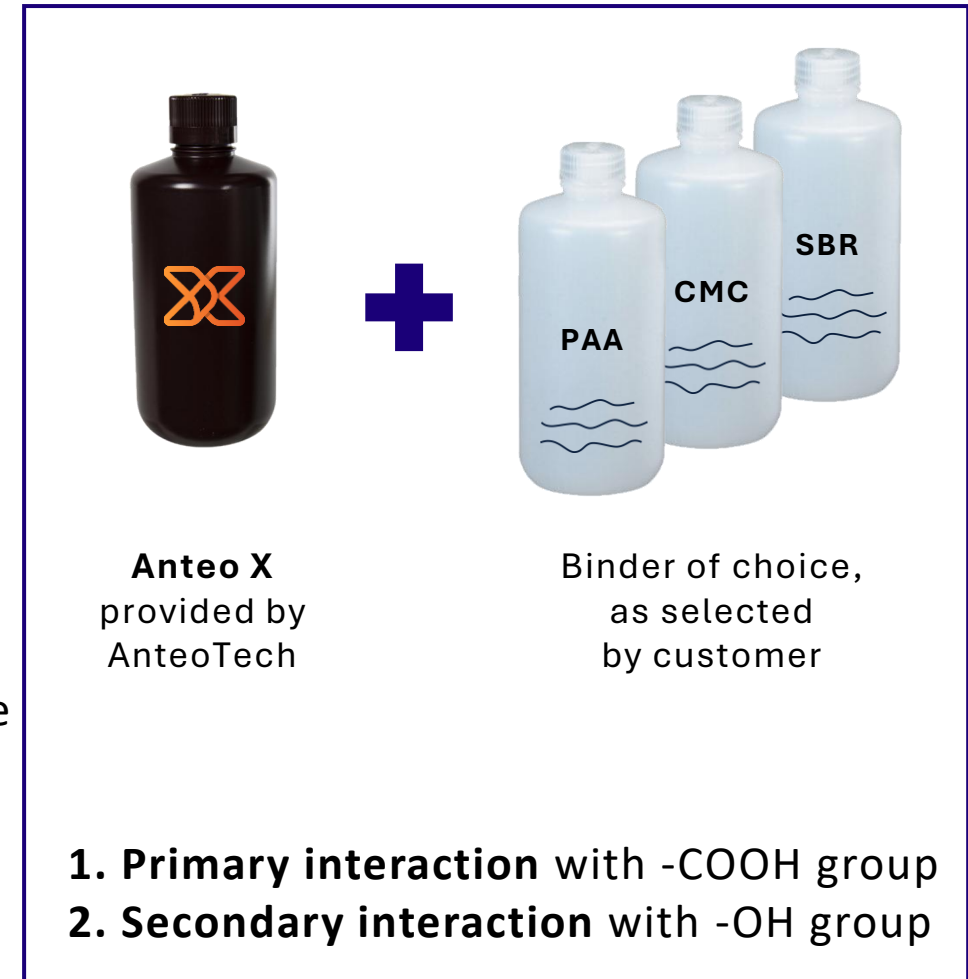
Product specifications

- Water-based, PFAS free solution
- Water-like rheology allows simple mixing
- Customizable across cross-linking strength & pot-life



Cost reductions

- Minimizes binder content
- Optimizes SWCNT content (can use SiMRAX)



Case study – Automotive Customer

Potential cost savings by optimizing the inactive material fraction of the anode

Objective:

- AnteoTech to optimize anode formulation: Increase cycle life and minimize CNTs

Process:

- Customer provided their baseline formulation as reference as well as preferred raw materials
- Internal screening in coin cells (>80 formulations)
- 100 meter roll-to-roll (R2R) coated electrode manufactured at 3rd party contractor
- Electrode tested in coin cells and single layer pouch cells

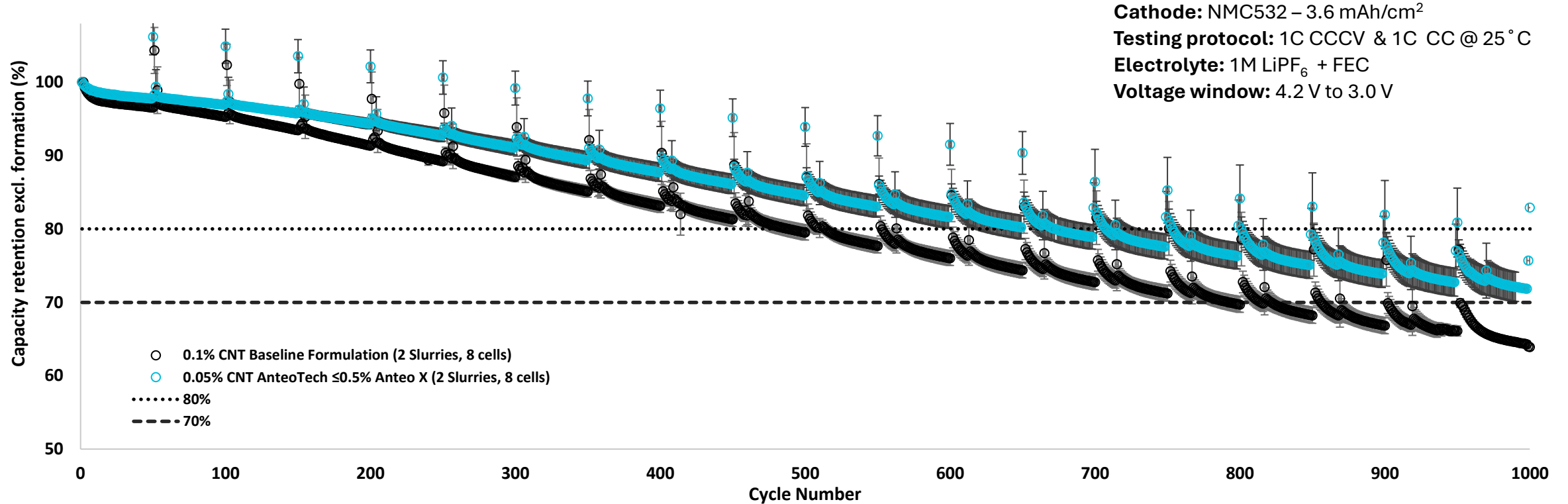
Outcomes:

- ✓ Performance verified
- ✓ +330 cycles achieved in optimized formulation, integrating Anteo X; Scaled to SLPs.
- ✓ Electrode roll successfully sold back to customer for further evaluations

Step 1 - Formulation Screening - 600mAh/g with Si/C and Gr



Potential cost savings by optimizing the inactive material fraction of the anode



	Formation cycle discharge capacity @C/20 (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)	Final capacity at cycle 1,000 (mAh/g)
Baseline Formulation	603	467	84.68	489	793	287
0.05wt.% CNT ≤0.5wt.% Anteo X	603	474	86.00	674	>1000 (@71.85%)	340
Improvement	-	8	1.32	185 (38% increase)	>207 (>26% increase)	53

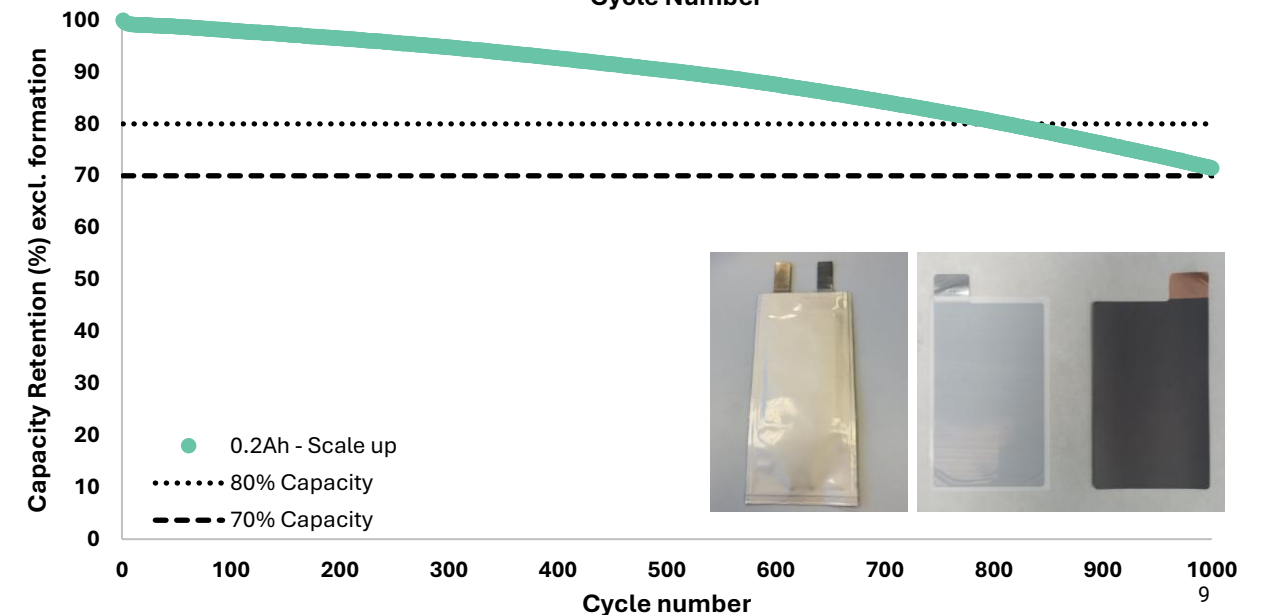
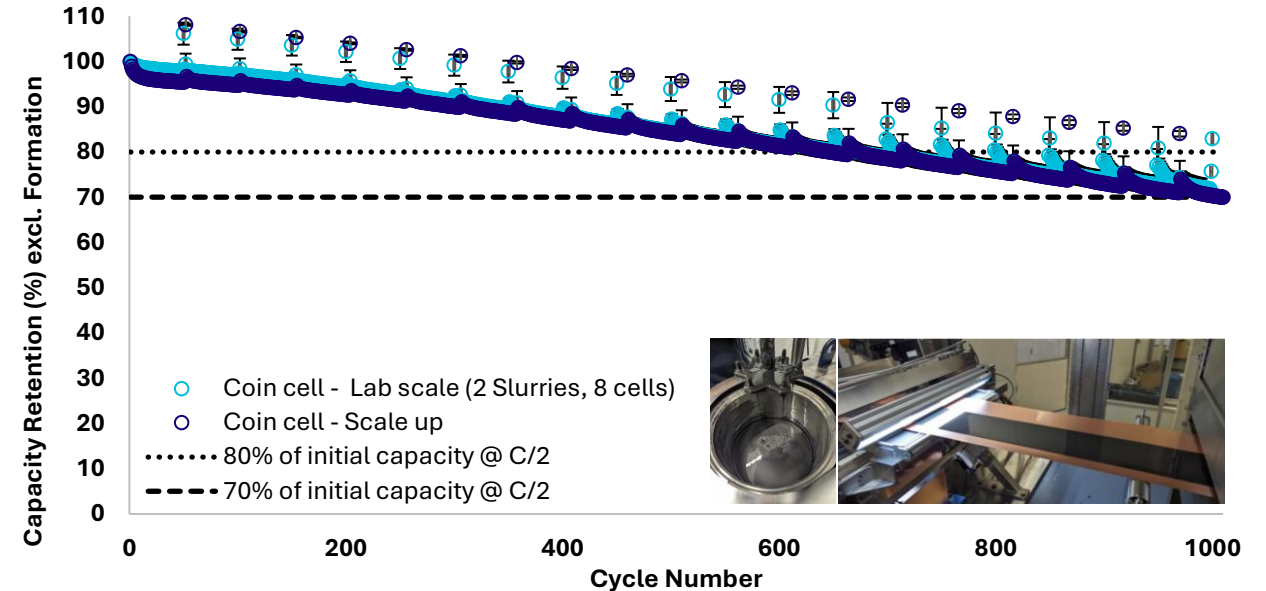
Step 2 - Single-layer or Multi-layer Pouch Cell testing

Lab-scale produced electrodes vs. R2R coated electrodes

- Full coin cells produced from A4 hand sheet coatings almost exact match with results produced from R2R coated anode formulation
- **Coin cell (A4 hand sheets): 673 cycles @ 80%**
- **Coin cells (R2R coated): 653 cycles @ 80%**

Full Coin Cells vs. Single Layer Pouch Cells

- The R2R coated anode formulation tested in 0.2Ah SLP cells showed a 17% improvement in capacity retention when compared with coin cell data
- Results from full coin cell to SLP cells showed excellent scalability
- **0.2Ah SLPs (R2R coated): 820 cycles @ 80%**



Leading Cross-linking Technology Product Portfolio for Electrodes and Ceramic Separator Coatings



ANTEO STM

Cross-linker for Ceramic Coated Separators (CCS)

NEW



ANTEO X[®]

Cross-linker for Silicon Anodes



SIMRAX

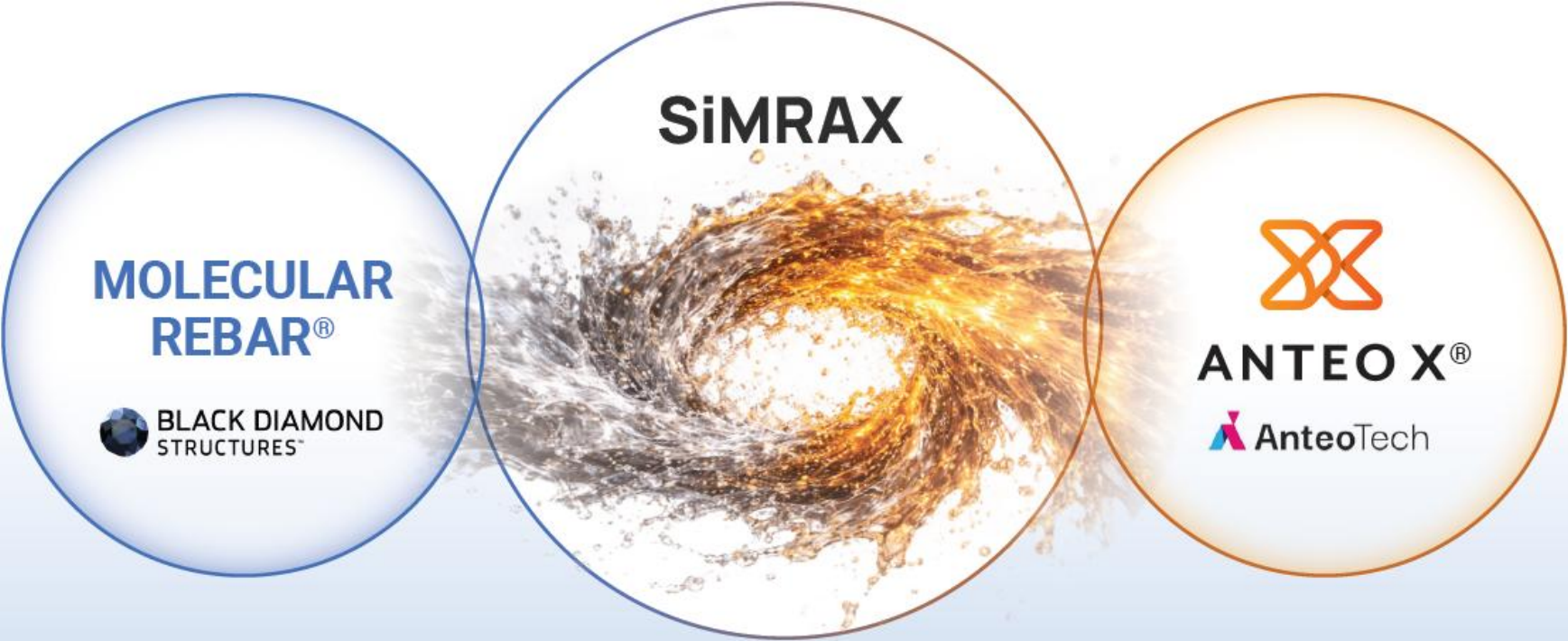
Anteo X + SWCNT
Combination Product

➤ All-in-one high silicon anode binder strengthening additive

NEW

The most efficient binder strengthening system around AnteoTech

Demonstrated >50% higher cycle life in high silicon anode cell designs, at ultra low CNT loadings



Leading CNT formulation technology

Water-based dispersion

SiMRAX, suited to >15wt.% silicon anodes, improving performance, minimizing cost and simplifying addition processes

Leading cross-linking technology

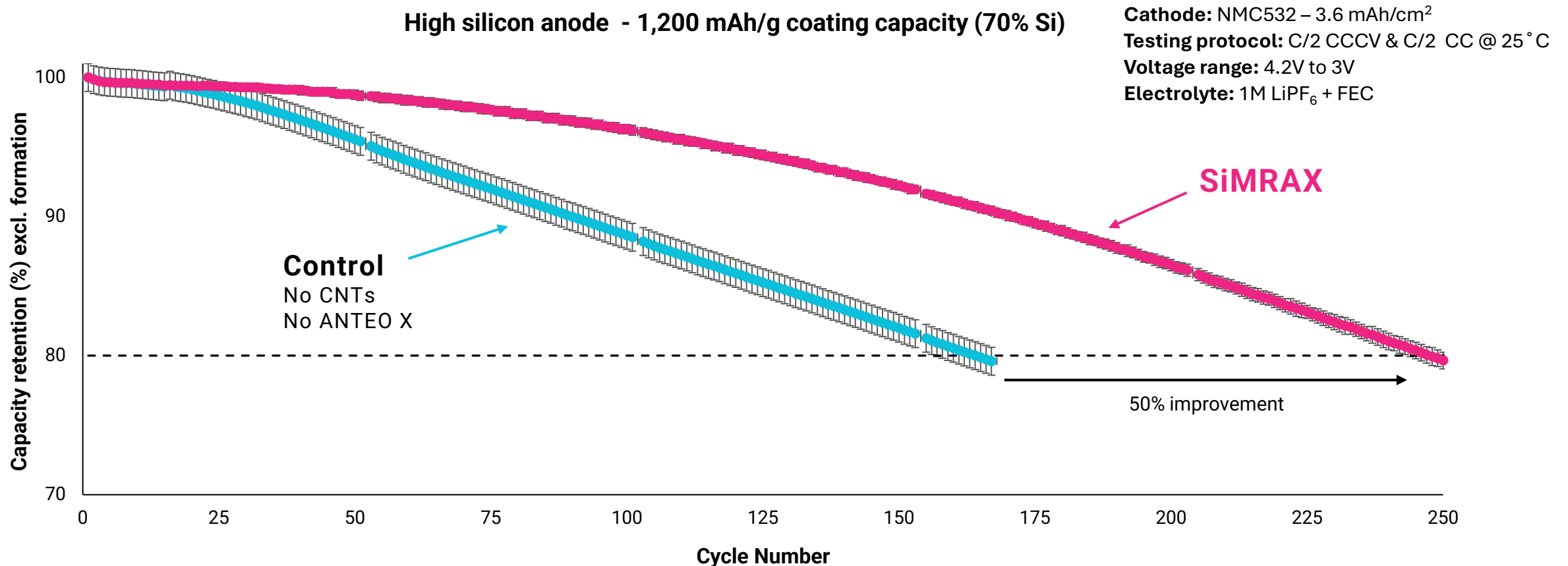
Water-based solution

SiMRAX – Anteo X + Single Walled CNTs



First of its kind product enabling high silicon anode performance

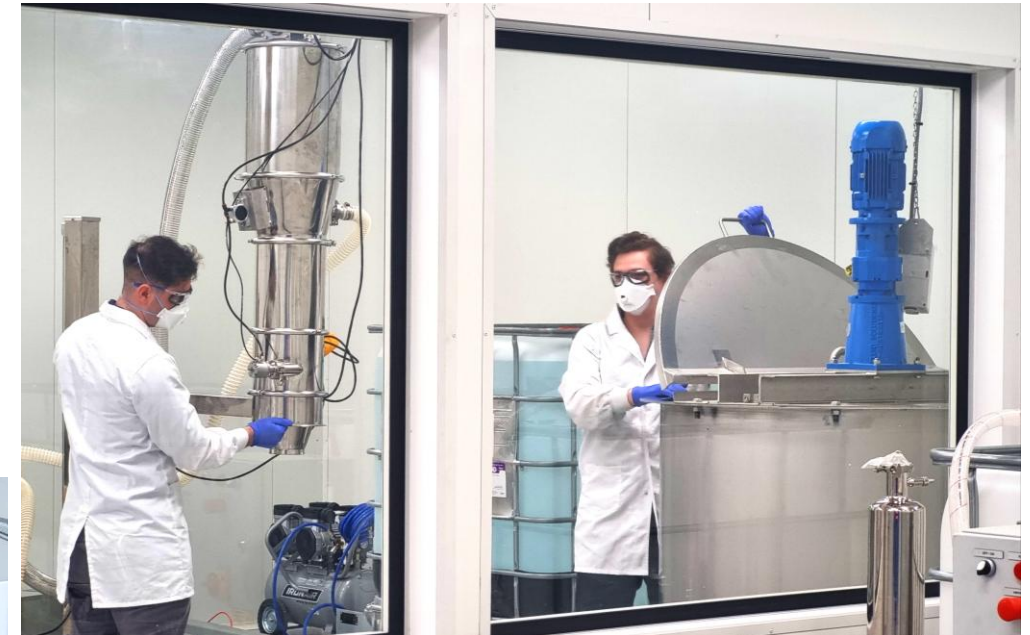
A NEW product delivering the world's most efficient binder strengthening agent by combining high-quality carbon nanotube products with unique cross-linker technology into a one-shot enablement of high silicon anodes.



AnteoTech's Production Facilities

GWh production capacity available

- **ISO 9001** certified, **20,000L** manufacturing facility
- ~1 GWh/year production capacity
- With capacity to expand to 2 GWh/year
- Located at AnteoTech's HQ in Brisbane (Australia)



Samples and Commercial Volumes

Samples are available in various volumes [liters] to meet all development stages




Stage	Anteo X	Anteo S	SiMRAX
Samples [L]	0.1, 1	0.1, 1	1
Pilot [L]	10	10	On request
Commercial [L]	500, 1000 (IBCs)	500, 1000 (IBCs)	On request



Leading in High Silicon Anode Technology



ULTRANODE™

Application	Automotive & eVTOLs 	3C Markets and Micro-mobility 	UAS, Drones and Defence 
Ultranode technology	Ultranode® X	Ultranode® 70	Ultranode® 95
Cycle life	High (>1,000 @ 80%)	Medium (>500 @ 80%)	Medium (>200 @ 80%)
Coating capacities	Medium (700-1,100 mAh/g)	Medium (700-1,100 mAh/g)	High (1,800-2,400 mAh/g)
Supply Chain Options	Korea, China, US	Korea, China, US	Korea, China, US
Engagement pathway	<ol style="list-style-type: none"> 1. Technology partnership 2. Joint Development Agreements 3. Licensing 	<ol style="list-style-type: none"> 1. Ultranode samples 2. Ultranode + Cathode sample packs 	<ol style="list-style-type: none"> 1. Ultranode samples and 2. Ultranode + Cathode sample packs

Ultranode™ 95 – Superior Wh/kg for Superior Flight Time

High capacity and cost-effective anode technology that is available today



Ultranode 95's unique Value Proposition



Superior Wh/kg at anode/cell level

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



Lowest \$/kWh silicon active material

Highly cost-effective anodes



Supply chain security

Existing silicon raw material supply from US, KR, EU



Highly customizable

Same active material different coating capacities



Ultranode™ 95 – Roll-to-roll manufacturing scale-up



Roll-to-roll scale-up completed

Process scale-up

- + Straight forward transition from lab-scale (protocols) to larger scale
- + 70% reduction in slurry mixing times compared to other lithium-ion anode slurries including graphite and Si/C
- + Project underway to progress to 5Ah cells and cylindrical cell builds for trials

Purpose: Scale-up of Ultranode 95

Coating length: 50m SS / 100m DS

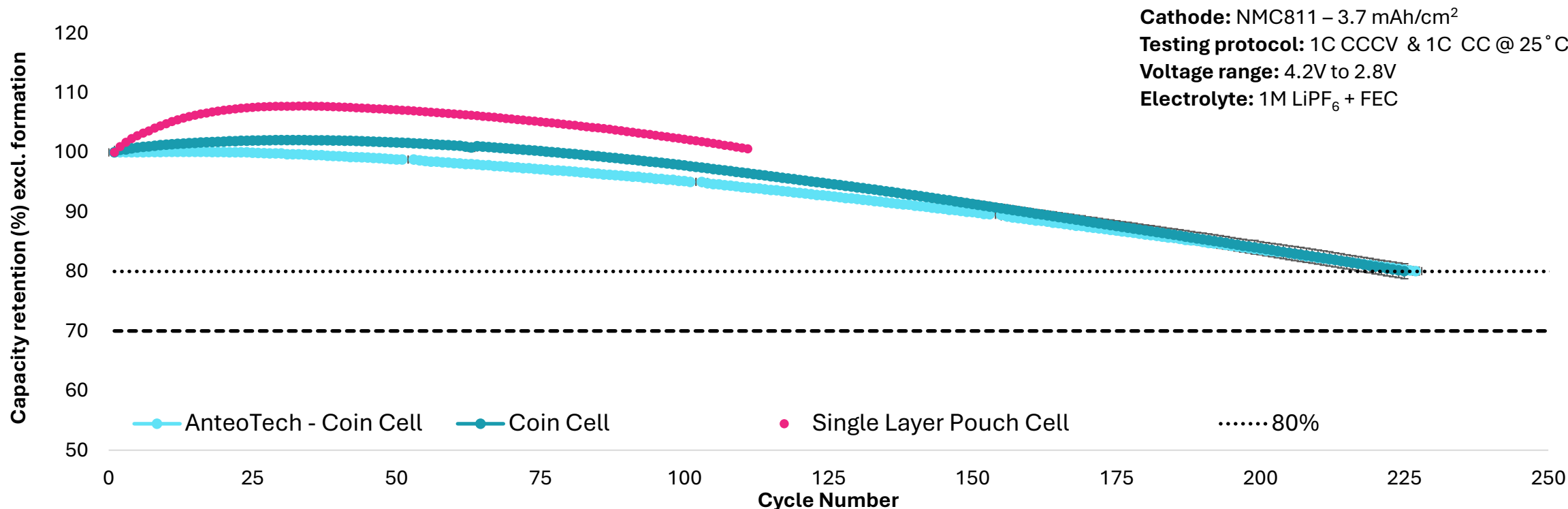
Outcome: Defect free Ultranode 95



Ultranode™ 95 vs. NMC811 – Current Scale-up Program



Moving from Single Layer Pouch Cells into Multi Layer Pouch Cells to Cylindricals



Cell configuration Ultranode 95 vs. NMC811	Formation cycle discharge capacity @C/20 (mAh/g)	1 st cycle discharge capacity @1C (mAh/g)	Initial CE (%)	Cycle number at 80% capacity retention (excl. formation)	Cycle number at 70% capacity retention (excl. formation)
AnteoTech – Coin Cell	2,161	1,852	89.0	227	305
Coin Cell	2,013	1,721	88.5	225	TBD
Single Layer Pouch Cell	2,014	1,691	88.3	TBD	TBD

What our Products Deliver

Leading in silicon anode technology and performance improvements



ANTEO X®



ANTEO S™



SiMRAX

- **Anteo X®** cross-linking additive that improves silicon anode performance
- **Anteo S™** additive for ceramic coated separators improving cost and safety
- **SiMRAX** an Anteo X® + SWCNT combination product for silicon anodes
- “Accelerate” Implementation package available - Sample plus service
- +20,000L existing production capacity (~1 GWh)



ULTRANODE™

- **Ultranode®** is a fully integrated silicon anode
- Highly customizable for Maximum Capacity or Maximum Cycle Life
- Cost effective silicon material sourced from established supply chains
- Range of commercial partnering opportunities



FORMULATION
SERVICES

- Can rapidly deliver into customer’s requirements
- Independent advice on silicon active materials including supply
- Flexible packages with staged pricing structures



THANK YOU

Contact us for samples or partnership opportunities!

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