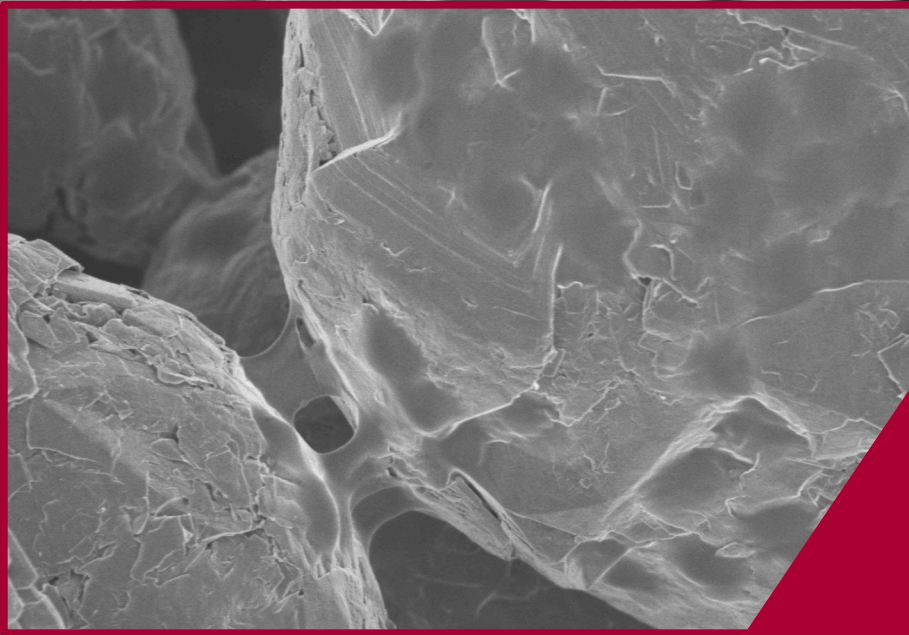




PRODUCTS FOR BATTERY

Binder for LiB Battery



Product Description

The Aron BM-T series stands out as the premier binder choice for lithium-ion batteries, particularly those requiring exceptional capacity and extended cycle performance.

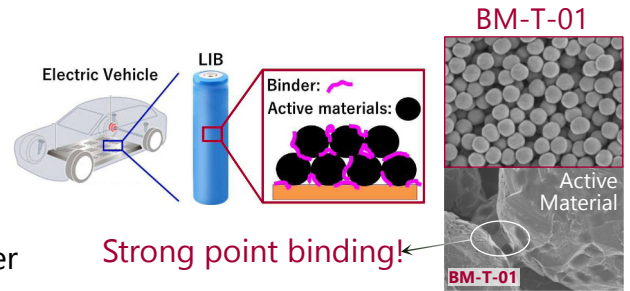
Advantages

Achieving sufficient binding strength suitable for silicon (Si) active materials to minimize the overall quantity of binders to enhance cycle performance and reduce internal resistance.

- » Strong binding strength for prolonging life-time
- » Low internal resistance to maintain battery capacity longer
- » Suppress electrode expansion for longer battery cycle

Application

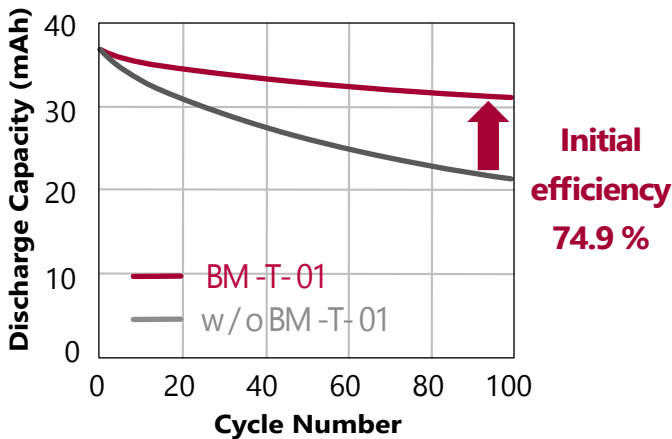
» Lithium Ion Battery



Technical Data

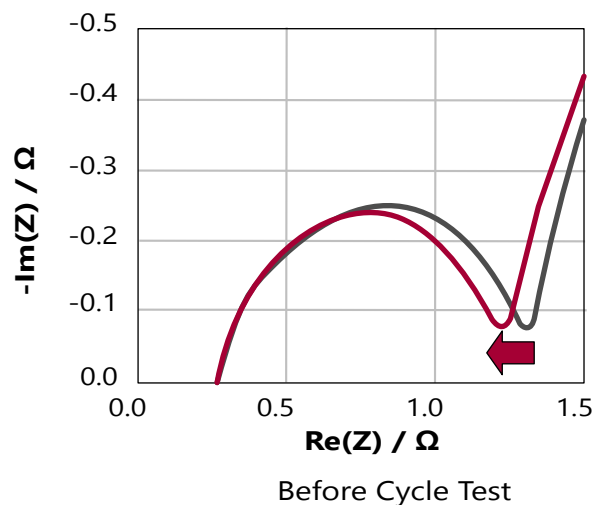
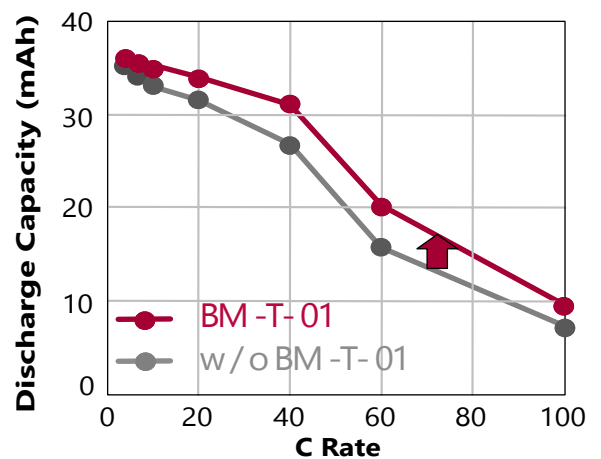
1. Prolong life-time by adding BM-T-01

Anode: Graphite / SiO / CMC /SBR / BM-T = 80/20/1/2/1 or 0 (w/w)
Charge: 0.5C, 4.2V, CCCV **Discharge:** 0.5C, 2.5V, CC



2. Low internal resistance

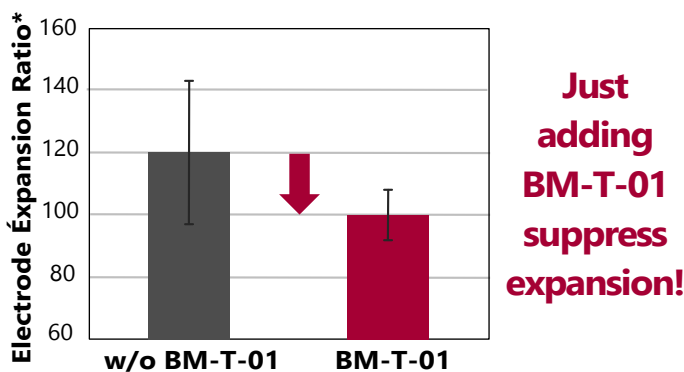
Anode: Graphite / SiO / CMC /SBR / BM-T = 80/20/1/2/1 or 0 (w/w)
Charge: 0.2C, 4.2V, CCV **Discharge:** 0.2-5C, 2.5V, CC



Just adding BM-T-01 reduces resistance!

3. Suppress electrode expansion

Anode: Graphite / SiO / CMC /SBR / BM-T = 80/20/1/2/1 or 0 (w/w)
Charge: 0.5 C, 4.2 V, CCCV **Discharge:** 0.5 C, 2.5 V, CC



*Electrode expansion ratio is measured thickness of anode electrode at discharge state (average of 15 cells). The value is calculated by below formula and standardized with BM-T-01 = 100. Error bars indicate 1 σ deviation.

$\frac{\text{Differences anode thickness (0 and 10 cycle)}}{\text{Anode thickness (0 cycle)}}$

