

SL-51M

Application

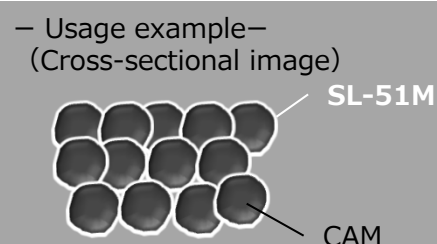
Coating materials for cathode active materials (CAM) used in Li-ion batteries (LIBs) and all-solid-state Li-ion batteries (ASSLIBs)

Outline

SL-51M is coating materials for CAM. It reduces the interfacial resistance between the CAM and the electrolyte or the solid electrolyte, and also suppresses the degradation of discharge capacity with the charge-discharge cycles. As a result, it contributes to cycling stability for LIBs and ASSLIBs.

Features

- ✓ Lithium complex fluorides
- ✓ Li-ion conductivity
- ✓ High oxidation resistance
- ✓ Fine particulate powder

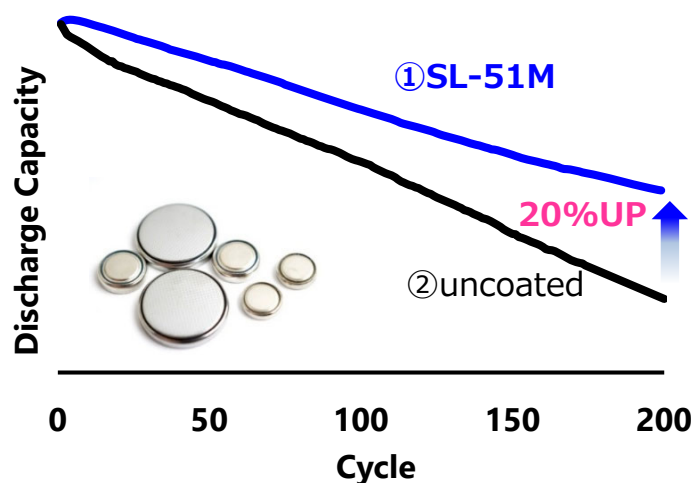


Electrochemical property

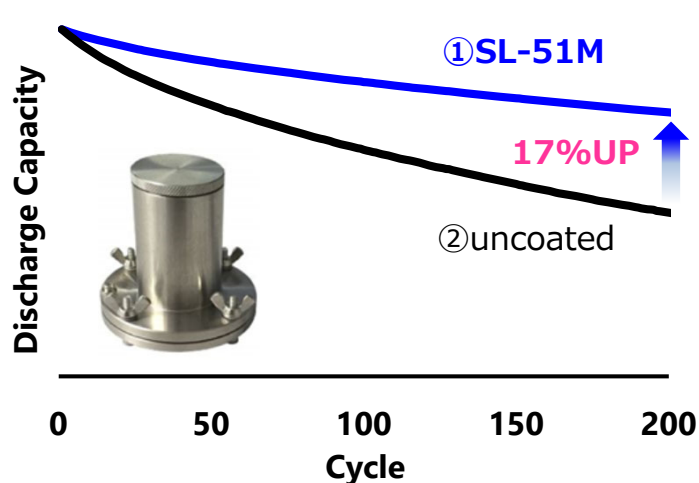
Cathode	①NCM622 (SL-51M) ②NCM622 (uncoated)
Anode	Li metal
Electrolyte	1mol/L LiPF ₆ / EC+DMC

Cathode	①LiCoO ₂ (SL-51M) ②LiCoO ₂ (uncoated)
Anode	Li-In alloy
Electrolyte	Li ₆ PS ₅ Cl

Cycling performance



Cycling performance



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