

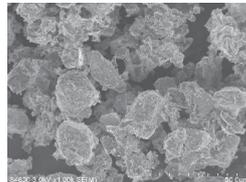
Sacrificial Cathode Material (SCM)



- ✓ SCM improves the energy density of LiBs by canceling the irreversible capacity on the anode.
- ✓ BP-456 exhibits a capacity of > 700mAh/g at an operating potential of <4.3 V (vs. Li+/Li).

Physical Properties

Product name	BP-456	BP-900
SSA m ² /g	< 5	< 30
D50 μm	8~20	8~30
Capacity mAh/g @ first charge	750	250
Operating potential (vs. Li+/Li)	3.0~4.3V	3.0~4.5V
Characteristic	High capacity	Moisture resistance



Improving energy density

Energy density* improve by $\geq 20\%$

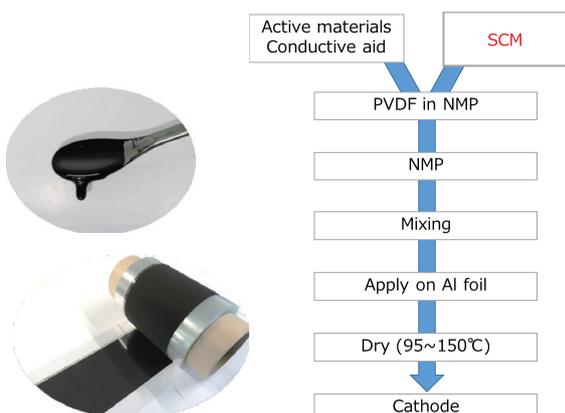
*Per electrode active material weight

Simulation: 4Ah LiBs

	LiBs containing SCM	Without SCM
Anode g (Si30%/Graphite70%)	4	←
Cathode g (LFP)	30	40
SCM g	2	0
Energy density mAh/g	111	91

How to Use

Not require any major changes to the current cathode manufacturing process.



Cycle Characteristics

Controlling the SOC of the anode Improves the cycle characteristics

