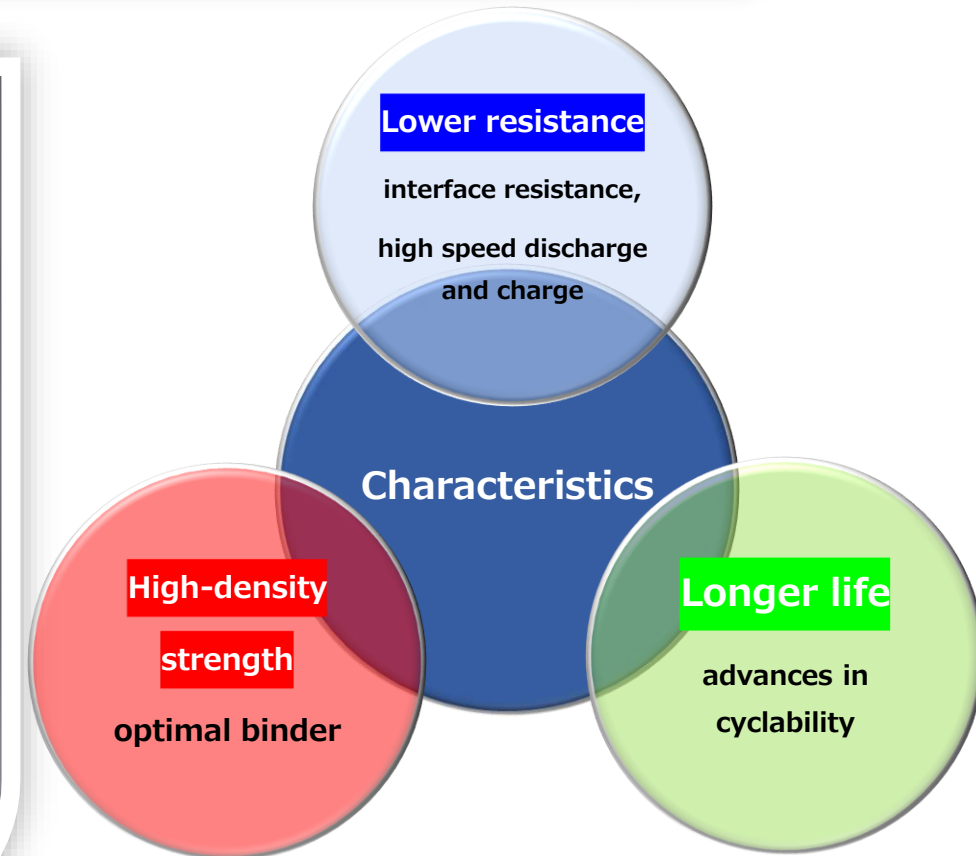
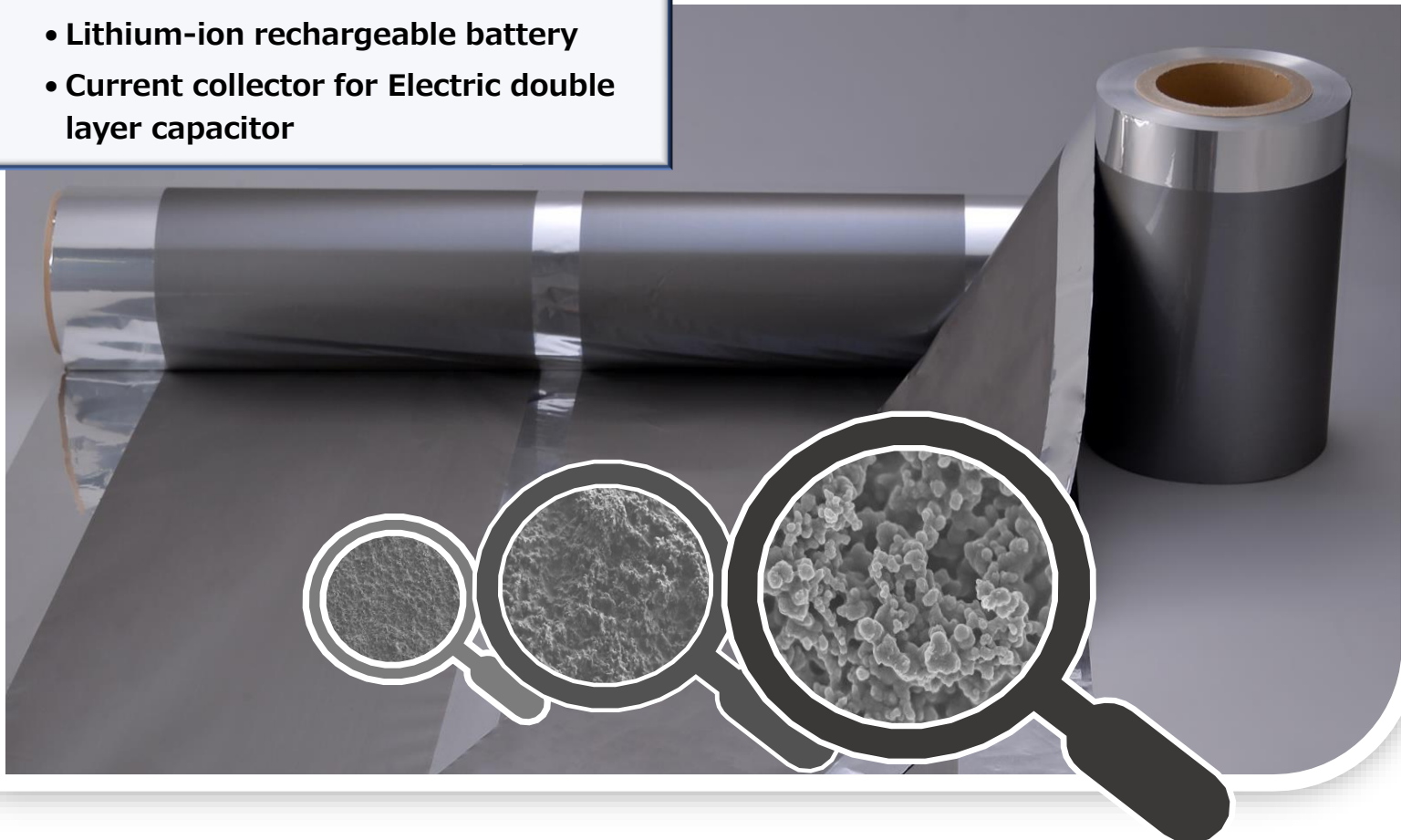


Carbon-coated foil for batteries SHX

Carbon-coated foil for batteries coated with High conductivity carbon particles, and low resistance and highly adhesive binder

Product use example

- Lithium-ion rechargeable battery
- Current collector for Electric double layer capacitor



Carbon-coated foil for batteries SHX

Standard specifications

Alloy	1N30 (1235) Hard foil															
Surface	Double-sided gloss/one-sided gloss															
Foil thickness	12μm、15μm、20μm															
Processing width	Min 300mm ~ Max 780mm 【From FY2020: up to 1,200 mm】															
Product width	Min 50mm ~ MAX 780mm 【From FY2020: up to 1,200 mm】															
Coating surface	One side/Both sides															
Coating pattern	<table border="1"> <thead> <tr> <th></th> <th>One side</th> <th>Both sides</th> </tr> </thead> <tbody> <tr> <td>Entire surface pattern 1</td> <td></td> <td></td> </tr> <tr> <td>Entire surface pattern 2</td> <td></td> <td></td> </tr> <tr> <td>Stripes</td> <td></td> <td></td> </tr> <tr> <td>Intermittent pattern</td> <td></td> <td></td> </tr> </tbody> </table> <p>※(Adjustable double-sided coating position)</p>		One side	Both sides	Entire surface pattern 1			Entire surface pattern 2			Stripes			Intermittent pattern		
		One side	Both sides													
	Entire surface pattern 1															
	Entire surface pattern 2															
	Stripes															
Intermittent pattern																
Product length	500 m to 10,000 m															
Other	Non-standard specifications also available															

We make carbon-coated aluminum foil products, drawing on over 40 years of experience and knowledge with aluminum foil production and quality control systems. New production equipment coming in FY2020 will boost production capacity and can accommodate substrate widths of up to 1.2 m. It will also enable production of custom lines such as carbon-coated copper foil and carbon-coated foil combined with client-supplied electrode coating in accordance with ever-changing needs.

Quality

Q-system

- In-house production control system

Traceability control

- Auto-generated production conditions records
- Workmanship and inspection records
- Surface inspection records

Clean production room

- Class 100,000

Inspection

- Surface inspection machine
- In-line strobe inspection
- Various performance testers

Other countermeasures

- Anti-contamination shielding

Processing technology

Coating technology

- Thickness 0.1μm~100μm

Coating method

- Gravure coating
- Reverse coating
- Top feed coating

Print technology

- Entire surface coating
- Stripes coating
- Intermittent pattern coating
- Adjustable double-sided coating position

Equipment

- devices for Removing foreign materials and eliminating wrinkles
- equipment modifications

Productive capacity

Coating machine

- 5 units
- 【From FY2020 : 6 units】

Slitter machine

- 9 units
- 【From FY2020 : 10 units】

Maintenance

- having spare parts stock always
- Daily life, periodic inspection

Adjustment technology

- mixing and dispersing control
- Viscosity adjustment
- Prevention of sedimentation
- Prevention of coarse particle
- Coating thickness control

Capacity for procuring materials

Aluminum foil

- 3 domestic companies
- 2 overseas companies

Resin

- 1 domestic company
【2 sites】