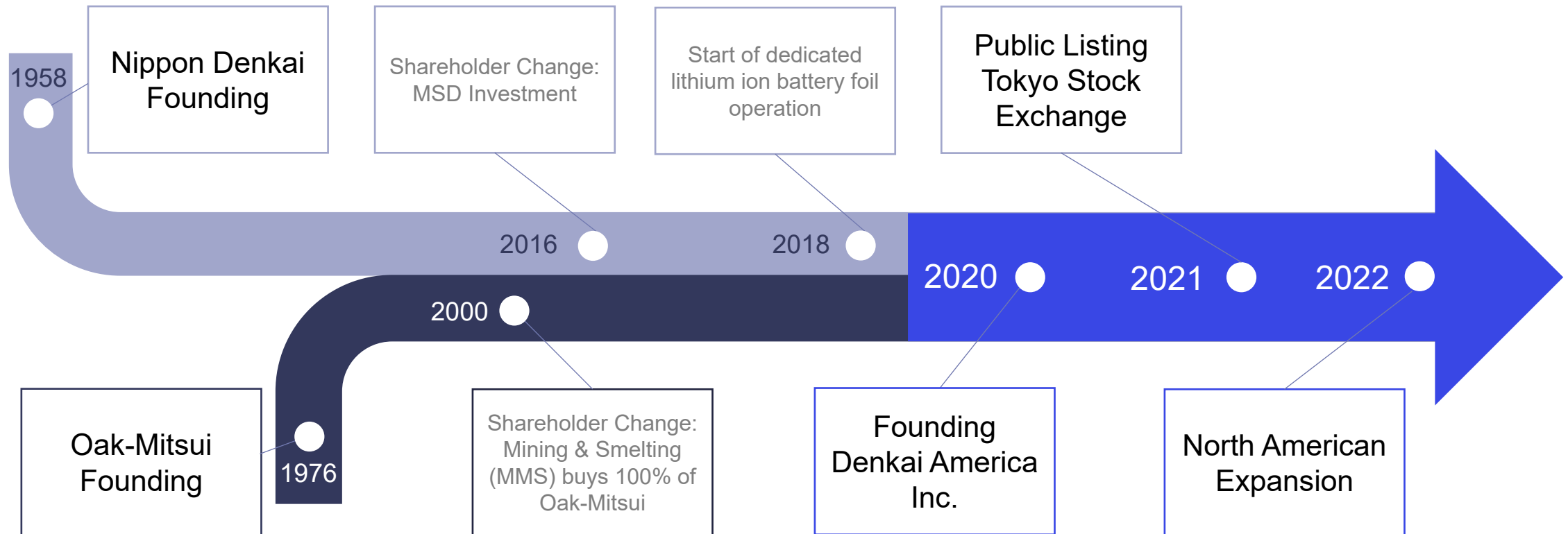


Denkai Copper Foil



Denkai Copper Foil – A Brief History



Global Presence



Nippon Den kai, LTD (日本電解株式会社)

- Corporate Headquarters
- Chikusei-shi, Ibaraki



Number of Employees

250

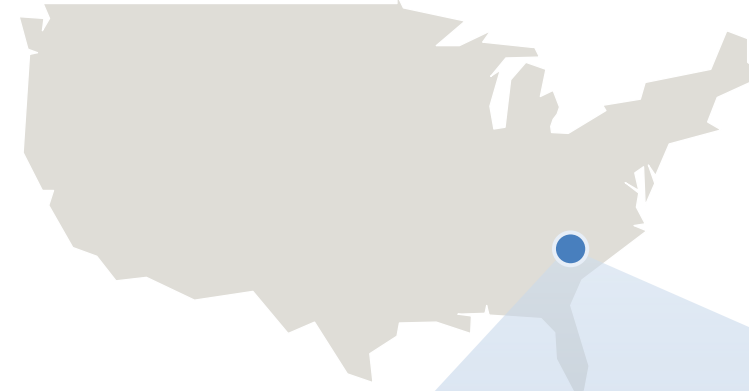


Capacity

750t/month

Denkai America Inc.

- Columbia, SC



Number of Employees

80



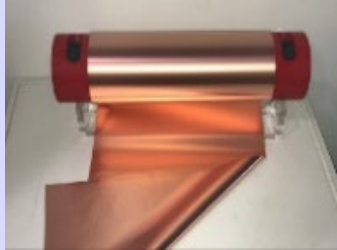
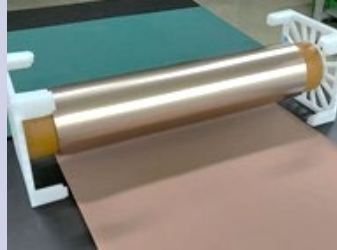
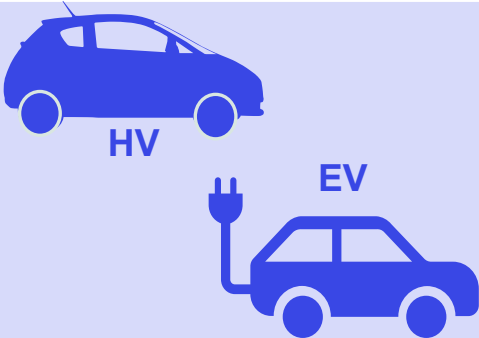
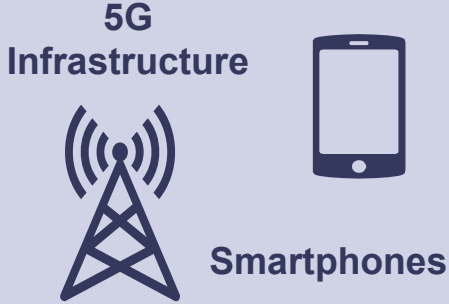
Capacity

300t/month

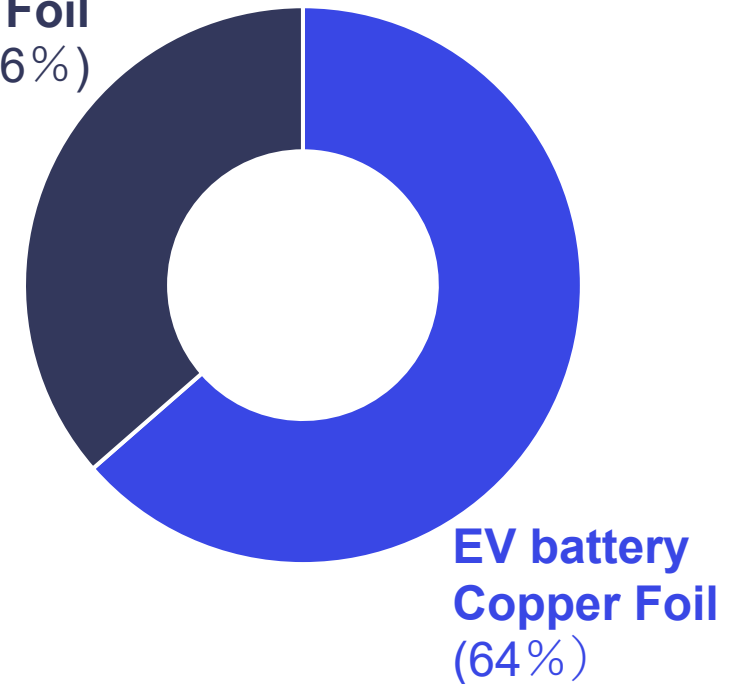


Products and Markets



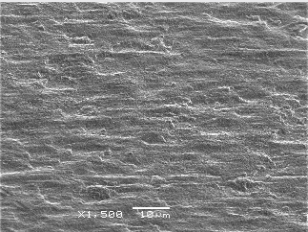
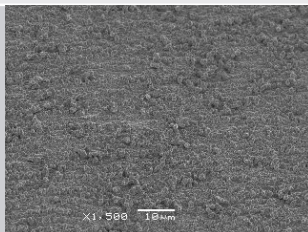
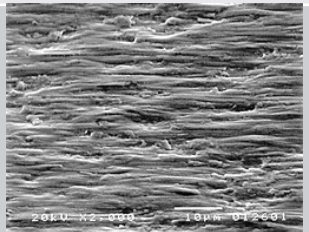
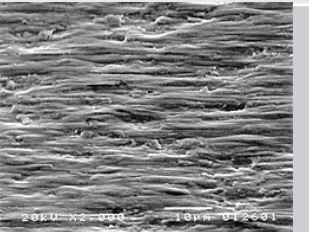
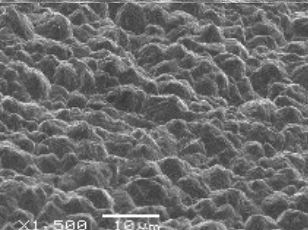
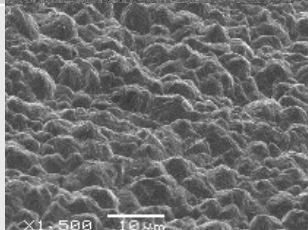
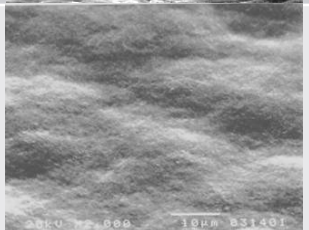
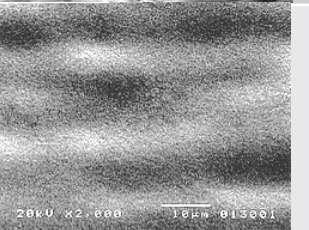
Types of Copper Foil	EV Battery Copper Foil	Circuits Board Copper Foil
		
Uses	Lithium-Ion Batteries (LIB)	Rigid & Flexible Printed Circuits, Package Substrates
Key End-Products		

Circuits Board
Copper Foil
(36%)



Lithium Ion Battery Foils



Item		TLB-PLSP	TLB-SS	YB	SEED
Tensile strength (N/mm ²)	at Room Temp	450	450	560	310
	After Heating*	210	210	280	290
Elongation (%)	at Room Temp	3.0	3.0	6.8	8.7
	After Heating*	8.0	8.0	13.4	9.6
Surface roughness Rz (um)	Drum side	1.6	2.5	1.1	1.1
	Solution side	2.9	2.9	1.2	1.3
Surface morphology (SEM) (× 2,000)	Shiny side				
	Matte side				

Process Capability

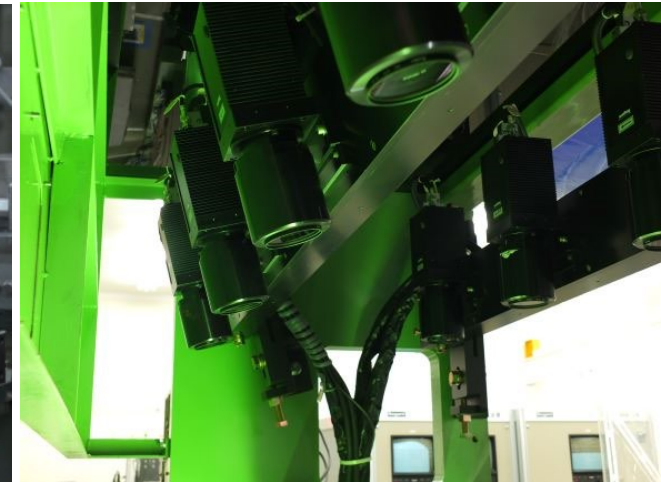
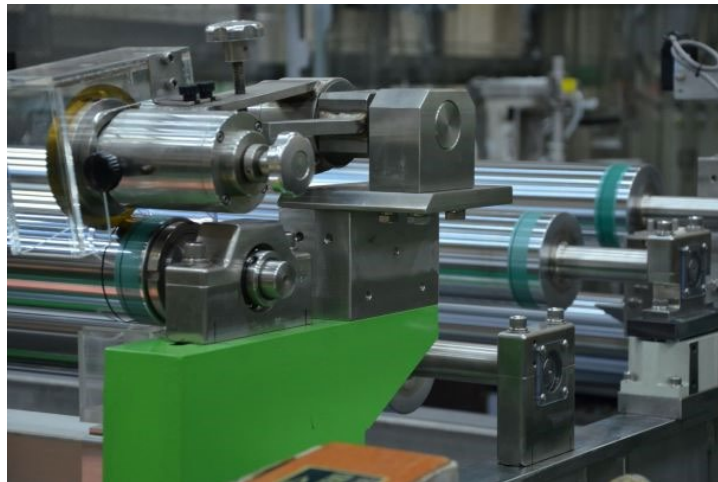


Quality

- Inspection
 - Automated optical & pinhole detection
 - Online thickness
- Certifications
 - ISO 9001
 - ISO 14001

Product

- Thickness: 6.0 to 210 μm
- Roll Width: 150 to 1330 mm
- Roll Length: $\leq 10,000$ m



US Expansion for High Volume YB Foil

