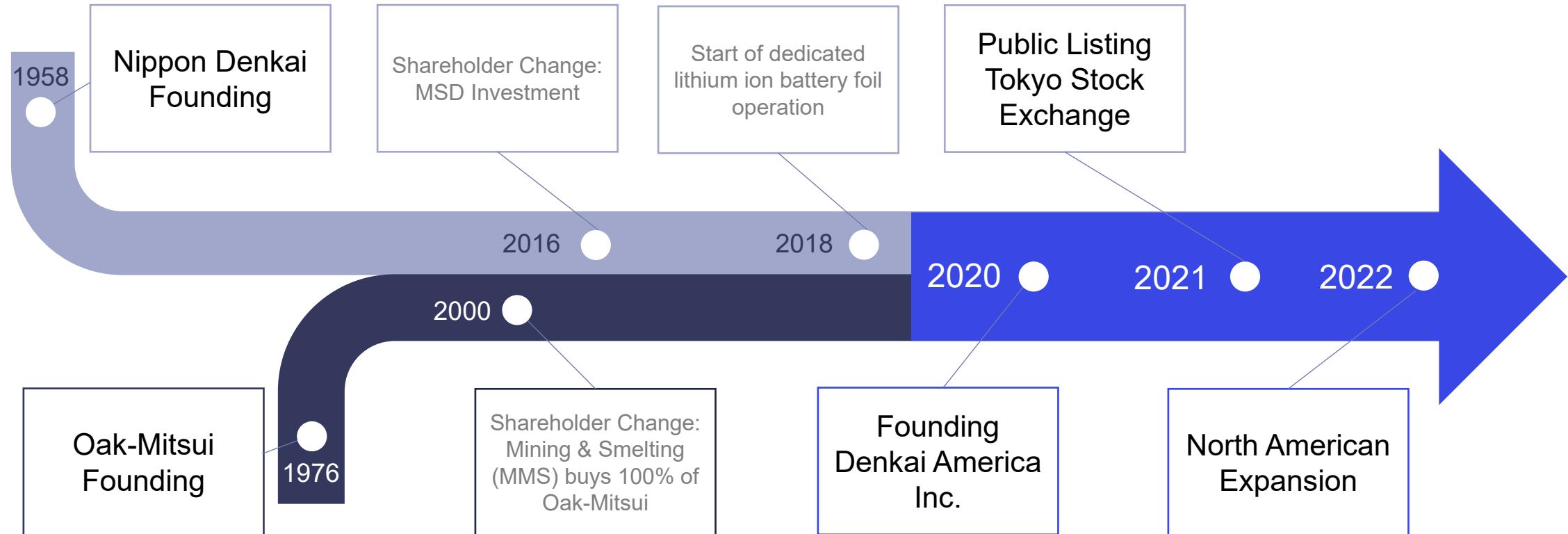


Denkai Copper Foil



Denkai Copper Foil – A Brief History



Global Presence



Nippon Denkai, LTD (日本電解株式会社)

- Corporate Headquarters
- Chikusei-shi, Ibaraki



Number of Employees
250

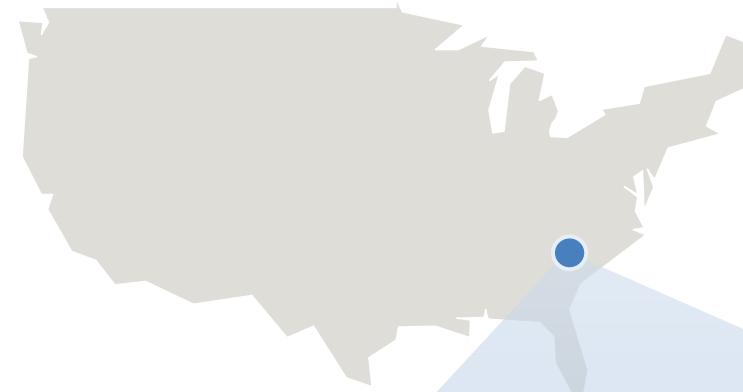


Capacity
750t/month



Denkai America Inc.

- Columbia, SC



Number of Employees
80



Capacity
300t/month

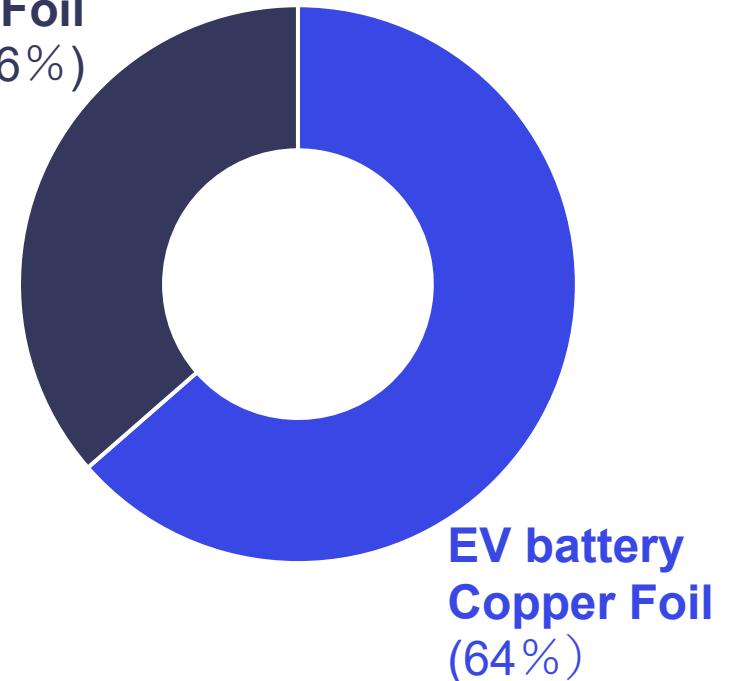


Products and Markets



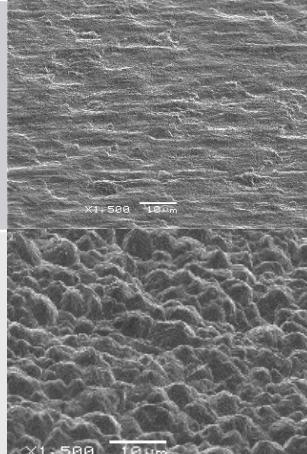
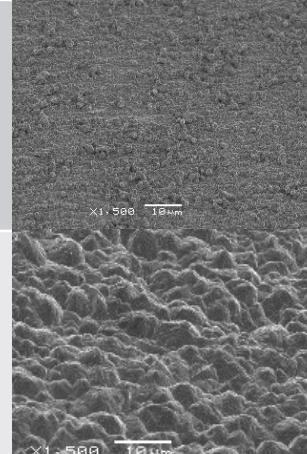
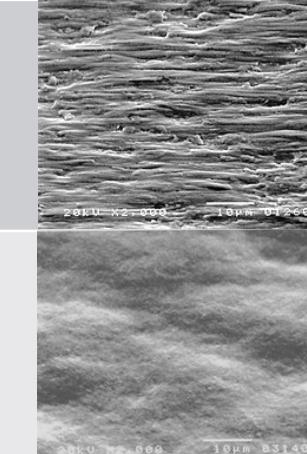
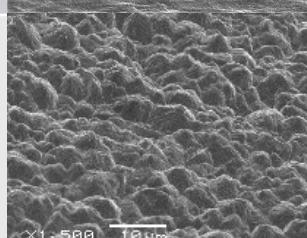
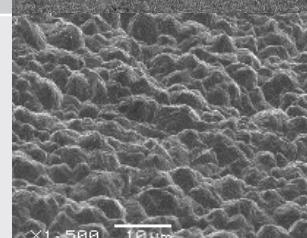
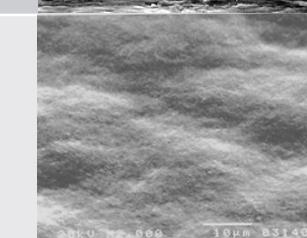
Types of Copper Foil	EV Battery Copper Foil 	Circuits Board Copper Foil
Uses	Lithium-Ion Batteries (LIB) 	Rigid & Flexible Printed Circuits, Package Substrates
Key End-Products		5G Infrastructure

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
	After Heating*	210	210	280
Elongation (%)	at Room Temp	3.0	3.0	6.8
	After Heating*	8.0	8.0	13.4
Surface roughness Rz(um)	Drum side	1.6	2.5	1.1
	Solution side	2.9	2.9	1.2
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

