

# Global Microporous Copper Foil for Lithium Ion Battery Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Microporous Copper Foil for Lithium Ion Battery market size is expected to reach \$ 2050 million by 2032, rising at a market growth of 43.9% CAGR during the forecast period (2026-2032).

Microporous Copper Foil for Lithium Ion Battery is a specialized anode current collector designed with a controllable porous structure to optimize ion transport pathways and interfacial compatibility within lithium-ion battery systems. By introducing micro-scale porosity into conventional copper foil, the material enhances electrolyte infiltration and electrode flexibility while reducing overall weight, thereby contributing to higher energy density and improved cycling stability. It is increasingly adopted in advanced lithium-ion batteries and emerging architectures such as solid-state systems and hybrid capacitors. In 2025, the industry's capacity utilization rate was about 45%, while the average gross margin reached approximately 30%, indicating that the sector remains in a scaling phase with ongoing cost optimization and technology refinement. Production in 2025 totaled 5,614 ton, with an average price of 28,500 USD/ton. The upstream of Microporous Copper Foil for Lithium Ion Battery is primarily composed of high-purity cathode copper and specialized pore-forming additives, including porogens and surfactants, with representative suppliers such as Jiangxi Copper, Tongling Nonferrous Metals, Freeport-McMoRan, and Glencore, ensuring material purity and process stability. The midstream focuses on precision electrochemical deposition, pore structure regulation, and surface treatment processes to achieve uniform porosity and mechanical integrity. The downstream is mainly driven by power batteries and consumer batteries, with key customers including CATL, BYD, LG Energy Solution, Panasonic, and Samsung SDI.

Microporous Copper Foil for Lithium Ion Battery is entering a critical commercialization stage driven by the accelerating demand for high-energy-density and high-safety lithium-ion battery systems. Its porous architecture directly addresses key bottlenecks in electrolyte infiltration and interfacial stability, making it increasingly relevant for high-loading electrodes, fast-charging applications, and next-generation battery structures such as semi-solid and solid-state configurations. At present, the industry is still constrained by process complexity, yield stability, and cost control, resulting in a relatively cautious capacity expansion pace and differentiated profitability among manufacturers. However, as downstream cell makers continue to push for higher performance and structural innovation, the value of functional current collectors is becoming more prominent within the battery material system. Suppliers with advanced pore-structure control and scalable manufacturing capabilities are expected to gradually improve margin resilience through product differentiation and customer qualification advantages, positioning the segment for structurally improving returns alongside the evolution of lithium-ion battery technologies.

This report studies the global Microporous Copper Foil for Lithium Ion Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microporous Copper Foil for Lithium Ion Battery and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Microporous Copper Foil for Lithium Ion Battery that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Microporous Copper Foil for Lithium Ion Battery total production and demand, 2021-2032, (Tons)

Global Microporous Copper Foil for Lithium Ion Battery total production value, 2021-2032, (USD Million)

Global Microporous Copper Foil for Lithium Ion Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Microporous Copper Foil for Lithium Ion Battery consumption by region &

country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Microporous Copper Foil for Lithium Ion Battery domestic production, consumption, key domestic manufacturers and share

Global Microporous Copper Foil for Lithium Ion Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Microporous Copper Foil for Lithium Ion Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Microporous Copper Foil for Lithium Ion Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Microporous Copper Foil for Lithium Ion Battery market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nuode New Materials, Jiayuan Technology, Defu Technology, Zhongyi Technology, Tongguan Copper Foil, Mitsui Kinzoku, Furukawa Electric, SK Nexilis, Circuit Foil, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Microporous Copper Foil for Lithium Ion Battery market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Microporous Copper Foil for Lithium Ion Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microporous Copper Foil for Lithium Ion Battery Market, Segmentation by Type:

Below 6?m

6-12?m

Global Microporous Copper Foil for Lithium Ion Battery Market, Segmentation by Porosity Rate:

30%?Porosity Rate?50%

Specific Capacity?50%

Others

Global Microporous Copper Foil for Lithium Ion Battery Market, Segmentation by Surface Treatment:

Bare Copper Microporous Copper Foil

Nickel-plated Microporous Copper Foil

Others

Global Microporous Copper Foil for Lithium Ion Battery Market, Segmentation by Application:

Power Battery

Consumer Battery

Others

Companies Profiled:

Nuode New Materials

Jiayuan Technology

Defu Technology

Zhongyi Technology

Tongguan Copper Foil

Mitsui Kinzoku

Furukawa Electric

SK Nexilis

Circuit Foil

**Key Questions Answered:**

1. How big is the global Microporous Copper Foil for Lithium Ion Battery market?
2. What is the demand of the global Microporous Copper Foil for Lithium Ion Battery market?
3. What is the year over year growth of the global Microporous Copper Foil for Lithium

Ion Battery market?

4. What is the production and production value of the global Microporous Copper Foil for Lithium Ion Battery market?
5. Who are the key producers in the global Microporous Copper Foil for Lithium Ion Battery market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Microporous Copper Foil for Lithium Ion Battery Introduction
- 1.2 World Microporous Copper Foil for Lithium Ion Battery Supply & Forecast
  - 1.2.1 World Microporous Copper Foil for Lithium Ion Battery Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Microporous Copper Foil for Lithium Ion Battery Production (2021-2032)
  - 1.2.3 World Microporous Copper Foil for Lithium Ion Battery Pricing Trends (2021-2032)
- 1.3 World Microporous Copper Foil for Lithium Ion Battery Production by Region (Based on Production Site)
  - 1.3.1 World Microporous Copper Foil for Lithium Ion Battery Production Value by Region (2021-2032)
  - 1.3.2 World Microporous Copper Foil for Lithium Ion Battery Production by Region (2021-2032)
  - 1.3.3 World Microporous Copper Foil for Lithium Ion Battery Average Price by Region (2021-2032)
  - 1.3.4 North America Microporous Copper Foil for Lithium Ion Battery Production (2021-2032)
  - 1.3.5 Europe Microporous Copper Foil for Lithium Ion Battery Production (2021-2032)
  - 1.3.6 China Microporous Copper Foil for Lithium Ion Battery Production (2021-2032)
  - 1.3.7 Japan Microporous Copper Foil for Lithium Ion Battery Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Microporous Copper Foil for Lithium Ion Battery Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Microporous Copper Foil for Lithium Ion Battery Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Microporous Copper Foil for Lithium Ion Battery Demand (2021-2032)
- 2.2 World Microporous Copper Foil for Lithium Ion Battery Consumption by Region
  - 2.2.1 World Microporous Copper Foil for Lithium Ion Battery Consumption by Region (2021-2026)
  - 2.2.2 World Microporous Copper Foil for Lithium Ion Battery Consumption Forecast by Region (2027-2032)
- 2.3 United States Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)

- 2.4 China Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)
- 2.5 Europe Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)
- 2.6 Japan Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)
- 2.7 South Korea Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)
- 2.8 ASEAN Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)
- 2.9 India Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Microporous Copper Foil for Lithium Ion Battery Production Value by Manufacturer (2021-2026)
- 3.2 World Microporous Copper Foil for Lithium Ion Battery Production by Manufacturer (2021-2026)
- 3.3 World Microporous Copper Foil for Lithium Ion Battery Average Price by Manufacturer (2021-2026)
- 3.4 Microporous Copper Foil for Lithium Ion Battery Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Microporous Copper Foil for Lithium Ion Battery Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Microporous Copper Foil for Lithium Ion Battery in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Microporous Copper Foil for Lithium Ion Battery in 2025
- 3.6 Microporous Copper Foil for Lithium Ion Battery Market: Overall Company Footprint Analysis
  - 3.6.1 Microporous Copper Foil for Lithium Ion Battery Market: Region Footprint
  - 3.6.2 Microporous Copper Foil for Lithium Ion Battery Market: Company Product Type Footprint
  - 3.6.3 Microporous Copper Foil for Lithium Ion Battery Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

#### 4.1 United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Value Comparison

4.1.1 United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Comparison

4.2.1 United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States VS China: Microporous Copper Foil for Lithium Ion Battery Consumption Comparison

4.3.1 United States VS China: Microporous Copper Foil for Lithium Ion Battery Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Microporous Copper Foil for Lithium Ion Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based Microporous Copper Foil for Lithium Ion Battery Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Microporous Copper Foil for Lithium Ion Battery Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value (2021-2026)

4.4.3 United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production (2021-2026)

#### 4.5 China Based Microporous Copper Foil for Lithium Ion Battery Manufacturers and Market Share

4.5.1 China Based Microporous Copper Foil for Lithium Ion Battery Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value (2021-2026)

4.5.3 China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production (2021-2026)

#### 4.6 Rest of World Based Microporous Copper Foil for Lithium Ion Battery Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Microporous Copper Foil for Lithium Ion Battery Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Microporous Copper Foil for Lithium Ion Battery Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Below 6?m

5.2.2 6-12?m

5.3 Market Segment by Type

5.3.1 World Microporous Copper Foil for Lithium Ion Battery Production by Type (2021-2032)

5.3.2 World Microporous Copper Foil for Lithium Ion Battery Production Value by Type (2021-2032)

5.3.3 World Microporous Copper Foil for Lithium Ion Battery Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY POROSITY RATE**

6.1 World Microporous Copper Foil for Lithium Ion Battery Market Size Overview by Porosity Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Porosity Rate

6.2.1 30%?Porosity Rate?50%

6.2.2 Specific Capacity?50%

6.2.3 Others

6.3 Market Segment by Porosity Rate

6.3.1 World Microporous Copper Foil for Lithium Ion Battery Production by Porosity Rate (2021-2032)

6.3.2 World Microporous Copper Foil for Lithium Ion Battery Production Value by Porosity Rate (2021-2032)

6.3.3 World Microporous Copper Foil for Lithium Ion Battery Average Price by Porosity Rate (2021-2032)

## **7 MARKET ANALYSIS BY SURFACE TREATMENT**

7.1 World Microporous Copper Foil for Lithium Ion Battery Market Size Overview by

Surface Treatment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Surface Treatment

7.2.1 Bare Copper Microporous Copper Foil

7.2.2 Nickel-plated Microporous Copper Foil

7.2.3 Others

7.3 Market Segment by Surface Treatment

7.3.1 World Microporous Copper Foil for Lithium Ion Battery Production by Surface Treatment (2021-2032)

7.3.2 World Microporous Copper Foil for Lithium Ion Battery Production Value by Surface Treatment (2021-2032)

7.3.3 World Microporous Copper Foil for Lithium Ion Battery Average Price by Surface Treatment (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Microporous Copper Foil for Lithium Ion Battery Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Battery

8.2.2 Consumer Battery

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Microporous Copper Foil for Lithium Ion Battery Production by Application (2021-2032)

8.3.2 World Microporous Copper Foil for Lithium Ion Battery Production Value by Application (2021-2032)

8.3.3 World Microporous Copper Foil for Lithium Ion Battery Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Nuode New Materials

9.1.1 Nuode New Materials Details

9.1.2 Nuode New Materials Major Business

9.1.3 Nuode New Materials Microporous Copper Foil for Lithium Ion Battery Product and Services

9.1.4 Nuode New Materials Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nuode New Materials Recent Developments/Updates

- 9.1.6 Nuode New Materials Competitive Strengths & Weaknesses
- 9.2 Jiayuan Technology
  - 9.2.1 Jiayuan Technology Details
  - 9.2.2 Jiayuan Technology Major Business
  - 9.2.3 Jiayuan Technology Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.2.4 Jiayuan Technology Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 Jiayuan Technology Recent Developments/Updates
  - 9.2.6 Jiayuan Technology Competitive Strengths & Weaknesses
- 9.3 Defu Technology
  - 9.3.1 Defu Technology Details
  - 9.3.2 Defu Technology Major Business
  - 9.3.3 Defu Technology Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.3.4 Defu Technology Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Defu Technology Recent Developments/Updates
  - 9.3.6 Defu Technology Competitive Strengths & Weaknesses
- 9.4 Zhongyi Technology
  - 9.4.1 Zhongyi Technology Details
  - 9.4.2 Zhongyi Technology Major Business
  - 9.4.3 Zhongyi Technology Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.4.4 Zhongyi Technology Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Zhongyi Technology Recent Developments/Updates
  - 9.4.6 Zhongyi Technology Competitive Strengths & Weaknesses
- 9.5 Tongguan Copper Foil
  - 9.5.1 Tongguan Copper Foil Details
  - 9.5.2 Tongguan Copper Foil Major Business
  - 9.5.3 Tongguan Copper Foil Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.5.4 Tongguan Copper Foil Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Tongguan Copper Foil Recent Developments/Updates
  - 9.5.6 Tongguan Copper Foil Competitive Strengths & Weaknesses
- 9.6 Mitsui Kinzoku
  - 9.6.1 Mitsui Kinzoku Details

- 9.6.2 Mitsui Kinzoku Major Business
- 9.6.3 Mitsui Kinzoku Microporous Copper Foil for Lithium Ion Battery Product and Services
- 9.6.4 Mitsui Kinzoku Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Mitsui Kinzoku Recent Developments/Updates
- 9.6.6 Mitsui Kinzoku Competitive Strengths & Weaknesses
- 9.7 Furukawa Electric
  - 9.7.1 Furukawa Electric Details
  - 9.7.2 Furukawa Electric Major Business
  - 9.7.3 Furukawa Electric Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.7.4 Furukawa Electric Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Furukawa Electric Recent Developments/Updates
  - 9.7.6 Furukawa Electric Competitive Strengths & Weaknesses
- 9.8 SK Nexilis
  - 9.8.1 SK Nexilis Details
  - 9.8.2 SK Nexilis Major Business
  - 9.8.3 SK Nexilis Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.8.4 SK Nexilis Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 SK Nexilis Recent Developments/Updates
  - 9.8.6 SK Nexilis Competitive Strengths & Weaknesses
- 9.9 Circuit Foil
  - 9.9.1 Circuit Foil Details
  - 9.9.2 Circuit Foil Major Business
  - 9.9.3 Circuit Foil Microporous Copper Foil for Lithium Ion Battery Product and Services
  - 9.9.4 Circuit Foil Microporous Copper Foil for Lithium Ion Battery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Circuit Foil Recent Developments/Updates
  - 9.9.6 Circuit Foil Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Microporous Copper Foil for Lithium Ion Battery Industry Chain
- 10.2 Microporous Copper Foil for Lithium Ion Battery Upstream Analysis
  - 10.2.1 Microporous Copper Foil for Lithium Ion Battery Core Raw Materials
  - 10.2.2 Main Manufacturers of Microporous Copper Foil for Lithium Ion Battery Core

## Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

### 10.5 Microporous Copper Foil for Lithium Ion Battery Production Mode

### 10.6 Microporous Copper Foil for Lithium Ion Battery Procurement Model

### 10.7 Microporous Copper Foil for Lithium Ion Battery Industry Sales Model and Sales Channels

#### 10.7.1 Microporous Copper Foil for Lithium Ion Battery Sales Model

#### 10.7.2 Microporous Copper Foil for Lithium Ion Battery Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

### 12.1 Methodology

### 12.2 Research Process and Data Source

### 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Microporous Copper Foil for Lithium Ion Battery Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Microporous Copper Foil for Lithium Ion Battery Production Value by Region (2021-2026) & (USD Million)

Table 3. World Microporous Copper Foil for Lithium Ion Battery Production Value by Region (2027-2032) & (USD Million)

Table 4. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Region (2021-2026)

Table 5. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Region (2027-2032)

Table 6. World Microporous Copper Foil for Lithium Ion Battery Production by Region (2021-2026) & (Tons)

Table 7. World Microporous Copper Foil for Lithium Ion Battery Production by Region (2027-2032) & (Tons)

Table 8. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Region (2021-2026)

Table 9. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Region (2027-2032)

Table 10. World Microporous Copper Foil for Lithium Ion Battery Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Microporous Copper Foil for Lithium Ion Battery Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Microporous Copper Foil for Lithium Ion Battery Major Market Trends

Table 13. World Microporous Copper Foil for Lithium Ion Battery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Microporous Copper Foil for Lithium Ion Battery Consumption by Region (2021-2026) & (Tons)

Table 15. World Microporous Copper Foil for Lithium Ion Battery Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Microporous Copper Foil for Lithium Ion Battery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Microporous Copper Foil for Lithium Ion Battery Producers in 2025

Table 18. World Microporous Copper Foil for Lithium Ion Battery Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Microporous Copper Foil for Lithium Ion Battery Producers in 2025

Table 20. World Microporous Copper Foil for Lithium Ion Battery Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Microporous Copper Foil for Lithium Ion Battery Company Evaluation Quadrant

Table 22. World Microporous Copper Foil for Lithium Ion Battery Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Microporous Copper Foil for Lithium Ion Battery Production Site of Key Manufacturer

Table 24. Microporous Copper Foil for Lithium Ion Battery Market: Company Product Type Footprint

Table 25. Microporous Copper Foil for Lithium Ion Battery Market: Company Product Application Footprint

Table 26. Microporous Copper Foil for Lithium Ion Battery Competitive Factors

Table 27. Microporous Copper Foil for Lithium Ion Battery New Entrant and Capacity Expansion Plans

Table 28. Microporous Copper Foil for Lithium Ion Battery Mergers & Acquisitions Activity

Table 29. United States VS China Microporous Copper Foil for Lithium Ion Battery Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Microporous Copper Foil for Lithium Ion Battery Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Microporous Copper Foil for Lithium Ion Battery Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Microporous Copper Foil for Lithium Ion Battery Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Market Share (2021-2026)

Table 37. China Based Microporous Copper Foil for Lithium Ion Battery Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Market Share (2021-2026)

Table 42. Rest of World Based Microporous Copper Foil for Lithium Ion Battery Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Market Share (2021-2026)

Table 47. World Microporous Copper Foil for Lithium Ion Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Microporous Copper Foil for Lithium Ion Battery Production by Type (2021-2026) & (Tons)

Table 49. World Microporous Copper Foil for Lithium Ion Battery Production by Type (2027-2032) & (Tons)

Table 50. World Microporous Copper Foil for Lithium Ion Battery Production Value by Type (2021-2026) & (USD Million)

Table 51. World Microporous Copper Foil for Lithium Ion Battery Production Value by Type (2027-2032) & (USD Million)

Table 52. World Microporous Copper Foil for Lithium Ion Battery Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Microporous Copper Foil for Lithium Ion Battery Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Microporous Copper Foil for Lithium Ion Battery Production Value by Porosity Rate, (USD Million), 2021 & 2025 & 2032

Table 55. World Microporous Copper Foil for Lithium Ion Battery Production by Porosity Rate (2021-2026) & (Tons)

Table 56. World Microporous Copper Foil for Lithium Ion Battery Production by Porosity Rate (2027-2032) & (Tons)

Table 57. World Microporous Copper Foil for Lithium Ion Battery Production Value by Porosity Rate (2021-2026) & (USD Million)

Table 58. World Microporous Copper Foil for Lithium Ion Battery Production Value by

Porosity Rate (2027-2032) & (USD Million)

Table 59. World Microporous Copper Foil for Lithium Ion Battery Average Price by Porosity Rate (2021-2026) & (US\$/Ton)

Table 60. World Microporous Copper Foil for Lithium Ion Battery Average Price by Porosity Rate (2027-2032) & (US\$/Ton)

Table 61. World Microporous Copper Foil for Lithium Ion Battery Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Table 62. World Microporous Copper Foil for Lithium Ion Battery Production by Surface Treatment (2021-2026) & (Tons)

Table 63. World Microporous Copper Foil for Lithium Ion Battery Production by Surface Treatment (2027-2032) & (Tons)

Table 64. World Microporous Copper Foil for Lithium Ion Battery Production Value by Surface Treatment (2021-2026) & (USD Million)

Table 65. World Microporous Copper Foil for Lithium Ion Battery Production Value by Surface Treatment (2027-2032) & (USD Million)

Table 66. World Microporous Copper Foil for Lithium Ion Battery Average Price by Surface Treatment (2021-2026) & (US\$/Ton)

Table 67. World Microporous Copper Foil for Lithium Ion Battery Average Price by Surface Treatment (2027-2032) & (US\$/Ton)

Table 68. World Microporous Copper Foil for Lithium Ion Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Microporous Copper Foil for Lithium Ion Battery Production by Application (2021-2026) & (Tons)

Table 70. World Microporous Copper Foil for Lithium Ion Battery Production by Application (2027-2032) & (Tons)

Table 71. World Microporous Copper Foil for Lithium Ion Battery Production Value by Application (2021-2026) & (USD Million)

Table 72. World Microporous Copper Foil for Lithium Ion Battery Production Value by Application (2027-2032) & (USD Million)

Table 73. World Microporous Copper Foil for Lithium Ion Battery Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Microporous Copper Foil for Lithium Ion Battery Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Nuode New Materials Basic Information, Manufacturing Base and Competitors

Table 76. Nuode New Materials Major Business

Table 77. Nuode New Materials Microporous Copper Foil for Lithium Ion Battery Product and Services

Table 78. Nuode New Materials Microporous Copper Foil for Lithium Ion Battery

Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nuode New Materials Recent Developments/Updates

Table 80. Nuode New Materials Competitive Strengths & Weaknesses

Table 81. Jiayuan Technology Basic Information, Manufacturing Base and Competitors

Table 82. Jiayuan Technology Major Business

Table 83. Jiayuan Technology Microporous Copper Foil for Lithium Ion Battery Product and Services

Table 84. Jiayuan Technology Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Jiayuan Technology Recent Developments/Updates

Table 86. Jiayuan Technology Competitive Strengths & Weaknesses

Table 87. Defu Technology Basic Information, Manufacturing Base and Competitors

Table 88. Defu Technology Major Business

Table 89. Defu Technology Microporous Copper Foil for Lithium Ion Battery Product and Services

Table 90. Defu Technology Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Defu Technology Recent Developments/Updates

Table 92. Defu Technology Competitive Strengths & Weaknesses

Table 93. Zhongyi Technology Basic Information, Manufacturing Base and Competitors

Table 94. Zhongyi Technology Major Business

Table 95. Zhongyi Technology Microporous Copper Foil for Lithium Ion Battery Product and Services

Table 96. Zhongyi Technology Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Zhongyi Technology Recent Developments/Updates

Table 98. Zhongyi Technology Competitive Strengths & Weaknesses

Table 99. Tongguan Copper Foil Basic Information, Manufacturing Base and Competitors

Table 100. Tongguan Copper Foil Major Business

Table 101. Tongguan Copper Foil Microporous Copper Foil for Lithium Ion Battery Product and Services

Table 102. Tongguan Copper Foil Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 103. Tongguan Copper Foil Recent Developments/Updates
- Table 104. Tongguan Copper Foil Competitive Strengths & Weaknesses
- Table 105. Mitsui Kinzoku Basic Information, Manufacturing Base and Competitors
- Table 106. Mitsui Kinzoku Major Business
- Table 107. Mitsui Kinzoku Microporous Copper Foil for Lithium Ion Battery Product and Services
- Table 108. Mitsui Kinzoku Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Mitsui Kinzoku Recent Developments/Updates
- Table 110. Mitsui Kinzoku Competitive Strengths & Weaknesses
- Table 111. Furukawa Electric Basic Information, Manufacturing Base and Competitors
- Table 112. Furukawa Electric Major Business
- Table 113. Furukawa Electric Microporous Copper Foil for Lithium Ion Battery Product and Services
- Table 114. Furukawa Electric Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Furukawa Electric Recent Developments/Updates
- Table 116. Furukawa Electric Competitive Strengths & Weaknesses
- Table 117. SK Nexilis Basic Information, Manufacturing Base and Competitors
- Table 118. SK Nexilis Major Business
- Table 119. SK Nexilis Microporous Copper Foil for Lithium Ion Battery Product and Services
- Table 120. SK Nexilis Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. SK Nexilis Recent Developments/Updates
- Table 122. SK Nexilis Competitive Strengths & Weaknesses
- Table 123. Circuit Foil Basic Information, Manufacturing Base and Competitors
- Table 124. Circuit Foil Major Business
- Table 125. Circuit Foil Microporous Copper Foil for Lithium Ion Battery Product and Services
- Table 126. Circuit Foil Microporous Copper Foil for Lithium Ion Battery Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Circuit Foil Recent Developments/Updates
- Table 128. Circuit Foil Competitive Strengths & Weaknesses
- Table 129. Global Key Players of Microporous Copper Foil for Lithium Ion Battery

Upstream (Raw Materials)

Table 130. Global Microporous Copper Foil for Lithium Ion Battery Typical Customers

Table 131. Microporous Copper Foil for Lithium Ion Battery Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Microporous Copper Foil for Lithium Ion Battery Picture
- Figure 2. World Microporous Copper Foil for Lithium Ion Battery Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Microporous Copper Foil for Lithium Ion Battery Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Microporous Copper Foil for Lithium Ion Battery Production (2021-2032) & (Tons)
- Figure 5. World Microporous Copper Foil for Lithium Ion Battery Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Region (2021-2032)
- Figure 7. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Region (2021-2032)
- Figure 8. North America Microporous Copper Foil for Lithium Ion Battery Production (2021-2032) & (Tons)
- Figure 9. Europe Microporous Copper Foil for Lithium Ion Battery Production (2021-2032) & (Tons)
- Figure 10. China Microporous Copper Foil for Lithium Ion Battery Production (2021-2032) & (Tons)
- Figure 11. Japan Microporous Copper Foil for Lithium Ion Battery Production (2021-2032) & (Tons)
- Figure 12. Microporous Copper Foil for Lithium Ion Battery Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)
- Figure 15. World Microporous Copper Foil for Lithium Ion Battery Consumption Market Share by Region (2021-2032)
- Figure 16. United States Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)
- Figure 17. China Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)
- Figure 18. Europe Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)
- Figure 19. Japan Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)

Figure 20. South Korea Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)

Figure 22. India Microporous Copper Foil for Lithium Ion Battery Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Microporous Copper Foil for Lithium Ion Battery by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Microporous Copper Foil for Lithium Ion Battery Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Microporous Copper Foil for Lithium Ion Battery Markets in 2025

Figure 26. United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Microporous Copper Foil for Lithium Ion Battery Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Microporous Copper Foil for Lithium Ion Battery Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Market Share 2025

Figure 30. China Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Microporous Copper Foil for Lithium Ion Battery Production Market Share 2025

Figure 32. World Microporous Copper Foil for Lithium Ion Battery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Type in 2025

Figure 34. Below 6?m

Figure 35. 6-12?m

Figure 36. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Type (2021-2032)

Figure 37. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Type (2021-2032)

Figure 38. World Microporous Copper Foil for Lithium Ion Battery Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Microporous Copper Foil for Lithium Ion Battery Production Value by Porosity Rate, (USD Million), 2021 & 2025 & 2032

Figure 40. World Microporous Copper Foil for Lithium Ion Battery Production Value

Market Share by Porosity Rate in 2025

Figure 41. 30%?Porosity Rate?50%

Figure 42. Specific Capacity?50%

Figure 43. Others

Figure 44. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Porosity Rate (2021-2032)

Figure 45. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Porosity Rate (2021-2032)

Figure 46. World Microporous Copper Foil for Lithium Ion Battery Average Price by Porosity Rate (2021-2032) & (US\$/Ton)

Figure 47. World Microporous Copper Foil for Lithium Ion Battery Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Figure 48. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Surface Treatment in 2025

Figure 49. Bare Copper Microporous Copper Foil

Figure 50. Nickel-plated Microporous Copper Foil

Figure 51. Others

Figure 52. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Surface Treatment (2021-2032)

Figure 53. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Surface Treatment (2021-2032)

Figure 54. World Microporous Copper Foil for Lithium Ion Battery Average Price by Surface Treatment (2021-2032) & (US\$/Ton)

Figure 55. World Microporous Copper Foil for Lithium Ion Battery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Application in 2025

Figure 57. Power Battery

Figure 58. Consumer Battery

Figure 59. Others

Figure 60. World Microporous Copper Foil for Lithium Ion Battery Production Market Share by Application (2021-2032)

Figure 61. World Microporous Copper Foil for Lithium Ion Battery Production Value Market Share by Application (2021-2032)

Figure 62. World Microporous Copper Foil for Lithium Ion Battery Average Price by Application (2021-2032) & (US\$/Ton)

Figure 63. Microporous Copper Foil for Lithium Ion Battery Industry Chain

Figure 64. Microporous Copper Foil for Lithium Ion Battery Procurement Model

Figure 65. Microporous Copper Foil for Lithium Ion Battery Sales Model

Figure 66. Microporous Copper Foil for Lithium Ion Battery Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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