

Global Nickel Foam Electrode Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nickel Foam Electrode Materials market size is expected to reach \$ 175 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

In 2025, global Nickel Foam Electrode Materials production reached 12.2 million square meter, with an average selling price of US\$10 per square meter. Nickel foam electrode materials are highly porous, three-dimensional open-cell metallic structures made of nickel that serve as lightweight current collectors and conductive scaffolds in electrochemical devices, offering exceptional porosity (93–98%), large active surface areas, and superior electrical conductivity.

The global nickel foam electrode materials market features concentrated supply, upgraded demand structure and clear technology evolution paths.

On the supply side, the industry has high entry barriers, with continuous production processes and purity control forming the core competitive threshold. Leading players have built a solid market position through long-term process accumulation and large-scale capacity. They improve product consistency and production efficiency via automated line upgrading and process optimization, and adjust capacity layout aligned with downstream industrial clusters to enhance delivery responsiveness.

On the demand side, traditional battery applications form a stable demand base, while hydrogen production and energy storage emerge as core growth drivers. Green low-carbon transition policies and hydrogen development plans across major economies drive the expansion of water electrolysis equipment, lifting both demand volume and performance requirements for nickel foam electrodes. Downstream customers impose

stricter standards on material corrosion resistance, electrochemical stability and long-cycle service life.

For technology and standards, industry iteration centers on material modification and customized development. Technical routes including coating modification and gradient pore structure are rolling out to meet diversified scenario demands. Updated national standards upgrade the quality regulation system, raise access barriers and accelerate low-end capacity clearance. The global supply chain shows a regionalization trend, as policy focus on key material self-sufficiency promotes local supply capacity building in major markets.

Report Scope

This report studies the global Nickel Foam Electrode Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nickel Foam Electrode Materials 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 Nickel Foam Electrode Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nickel Foam Electrode Materials total production and demand, 2021-2032, (K Sqm)

Global Nickel Foam Electrode Materials total production value, 2021-2032, (USD Million)

Global Nickel Foam Electrode Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Nickel Foam Electrode Materials consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Nickel Foam Electrode Materials domestic production, consumption, key domestic manufacturers and share

Global Nickel Foam Electrode Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Nickel Foam Electrode Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Nickel Foam Electrode Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Nickel Foam Electrode Materials 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 Hunan Corun, Alantum, Sumitomo Electric Industries, Wuzhou Sanhe New Material, Heze Tianyu Technology, Novamet Specialty Products, JIA SHI DE, Kunshan Jiayisheng, 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 Nickel Foam Electrode Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sqm) 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 Nickel Foam Electrode Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Nickel Foam Electrode Materials Market, Segmentation by Type:

Continuous Nickel Foam

Special Nickel Foam

Global Nickel Foam Electrode Materials Market, Segmentation by Pore Density:

Coarse-pored (<30 PPI)

Medium-pored (30–100 PPI)

Fine-pored (>100 PPI)

Global Nickel Foam Electrode Materials Market, Segmentation by Thickness:

Thickness <2mm

Thickness 2–5mm

Thickness >5mm

Global Nickel Foam Electrode Materials Market, Segmentation by Application:

Ni-MH Power Batteries

Consumer Nickel-Based Batteries

Hydrogen Production Electrolyzers

Supercapacitors

Others

Companies Profiled:

Hunan Corun

Alantum

Sumitomo Electric Industries

Wuzhou Sanhe New Material

Heze Tianyu Technology

Novamet Specialty Products

JIA SHI DE

Kunshan Jiayisheng

Key Questions Answered

1. How big is the global Nickel Foam Electrode Materials market?
2. What is the demand of the global Nickel Foam Electrode Materials market?
3. What is the year over year growth of the global Nickel Foam Electrode Materials market?
4. What is the total value of the global Nickel Foam Electrode Materials market?
5. Who are the Major Players in the global Nickel Foam Electrode Materials market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Nickel Foam Electrode Materials Introduction
- 1.2 World Nickel Foam Electrode Materials Supply & Forecast
 - 1.2.1 World Nickel Foam Electrode Materials Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Nickel Foam Electrode Materials Production (2021-2032)
 - 1.2.3 World Nickel Foam Electrode Materials Pricing Trends (2021-2032)
- 1.3 World Nickel Foam Electrode Materials Production by Region (Based on Production Site)
 - 1.3.1 World Nickel Foam Electrode Materials Production Value by Region (2021-2032)
 - 1.3.2 World Nickel Foam Electrode Materials Production by Region (2021-2032)
 - 1.3.3 World Nickel Foam Electrode Materials Average Price by Region (2021-2032)
 - 1.3.4 China Nickel Foam Electrode Materials Production (2021-2032)
 - 1.3.5 Japan Nickel Foam Electrode Materials Production (2021-2032)
 - 1.3.6 North America Nickel Foam Electrode Materials Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Nickel Foam Electrode Materials Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Nickel Foam Electrode Materials Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Nickel Foam Electrode Materials Demand (2021-2032)
- 2.2 World Nickel Foam Electrode Materials Consumption by Region
 - 2.2.1 World Nickel Foam Electrode Materials Consumption by Region (2021-2026)
 - 2.2.2 World Nickel Foam Electrode Materials Consumption Forecast by Region (2027-2032)
- 2.3 United States Nickel Foam Electrode Materials Consumption (2021-2032)
- 2.4 China Nickel Foam Electrode Materials Consumption (2021-2032)
- 2.5 Europe Nickel Foam Electrode Materials Consumption (2021-2032)
- 2.6 Japan Nickel Foam Electrode Materials Consumption (2021-2032)
- 2.7 South Korea Nickel Foam Electrode Materials Consumption (2021-2032)
- 2.8 ASEAN Nickel Foam Electrode Materials Consumption (2021-2032)
- 2.9 India Nickel Foam Electrode Materials Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Nickel Foam Electrode Materials Production Value by Manufacturer (2021-2026)
- 3.2 World Nickel Foam Electrode Materials Production by Manufacturer (2021-2026)
- 3.3 World Nickel Foam Electrode Materials Average Price by Manufacturer (2021-2026)
- 3.4 Nickel Foam Electrode Materials Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Nickel Foam Electrode Materials Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Nickel Foam Electrode Materials in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Nickel Foam Electrode Materials in 2025
- 3.6 Nickel Foam Electrode Materials Market: Overall Company Footprint Analysis
 - 3.6.1 Nickel Foam Electrode Materials Market: Region Footprint
 - 3.6.2 Nickel Foam Electrode Materials Market: Company Product Type Footprint
 - 3.6.3 Nickel Foam Electrode Materials 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: Nickel Foam Electrode Materials Production Value Comparison
 - 4.1.1 United States VS China: Nickel Foam Electrode Materials Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Nickel Foam Electrode Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Nickel Foam Electrode Materials Production Comparison
 - 4.2.1 United States VS China: Nickel Foam Electrode Materials Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Nickel Foam Electrode Materials Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Nickel Foam Electrode Materials Consumption Comparison
 - 4.3.1 United States VS China: Nickel Foam Electrode Materials Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Nickel Foam Electrode Materials Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Nickel Foam Electrode Materials Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based Nickel Foam Electrode Materials Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Nickel Foam Electrode Materials Production Value (2021-2026)

4.4.3 United States Based Manufacturers Nickel Foam Electrode Materials Production (2021-2026)

4.5 China Based Nickel Foam Electrode Materials Manufacturers and Market Share

4.5.1 China Based Nickel Foam Electrode Materials Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Nickel Foam Electrode Materials Production Value (2021-2026)

4.5.3 China Based Manufacturers Nickel Foam Electrode Materials Production (2021-2026)

4.6 Rest of World Based Nickel Foam Electrode Materials Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Nickel Foam Electrode Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Nickel Foam Electrode Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Nickel Foam Electrode Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Nickel Foam Electrode Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Continuous Nickel Foam

5.2.2 Special Nickel Foam

5.3 Market Segment by Type

5.3.1 World Nickel Foam Electrode Materials Production by Type (2021-2032)

5.3.2 World Nickel Foam Electrode Materials Production Value by Type (2021-2032)

5.3.3 World Nickel Foam Electrode Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PORE ??DENSITY

6.1 World Nickel Foam Electrode Materials Market Size Overview by Pore ??Density: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Pore ??Density

6.2.1 Coarse-pored (<30 PPI)

6.2.2 Medium-pored (30–100 PPI)

6.2.3 Fine-pored (>100 PPI)

6.3 Market Segment by Pore ??Density

6.3.1 World Nickel Foam Electrode Materials Production by Pore ??Density
(2021-2032)

6.3.2 World Nickel Foam Electrode Materials Production Value by Pore ??Density
(2021-2032)

6.3.3 World Nickel Foam Electrode Materials Average Price by Pore ??Density
(2021-2032)

7 MARKET ANALYSIS BY THICKNESS

7.1 World Nickel Foam Electrode Materials Market Size Overview by Thickness: 2021
VS 2025 VS 2032

7.2 Segment Introduction by Thickness

7.2.1 Thickness <2mm

7.2.2 Thickness 2–5mm

7.2.3 Thickness >5mm

7.3 Market Segment by Thickness

7.3.1 World Nickel Foam Electrode Materials Production by Thickness (2021-2032)

7.3.2 World Nickel Foam Electrode Materials Production Value by Thickness
(2021-2032)

7.3.3 World Nickel Foam Electrode Materials Average Price by Thickness (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Nickel Foam Electrode Materials Market Size Overview by Application: 2021
VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Ni-MH Power Batteries

8.2.2 Consumer Nickel-Based Batteries

8.2.3 Hydrogen Production Electrolyzers

8.2.4 Supercapacitors

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Nickel Foam Electrode Materials Production by Application (2021-2032)

8.3.2 World Nickel Foam Electrode Materials Production Value by Application

(2021-2032)

8.3.3 World Nickel Foam Electrode Materials Average Price by Application

(2021-2032)

9 COMPANY PROFILES

9.1 Hunan Corun

9.1.1 Hunan Corun Details

9.1.2 Hunan Corun Major Business

9.1.3 Hunan Corun Nickel Foam Electrode Materials Product and Services

9.1.4 Hunan Corun Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Hunan Corun Recent Developments/Updates

9.1.6 Hunan Corun Competitive Strengths & Weaknesses

9.2 Alantum

9.2.1 Alantum Details

9.2.2 Alantum Major Business

9.2.3 Alantum Nickel Foam Electrode Materials Product and Services

9.2.4 Alantum Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Alantum Recent Developments/Updates

9.2.6 Alantum Competitive Strengths & Weaknesses

9.3 Sumitomo Electric Industries

9.3.1 Sumitomo Electric Industries Details

9.3.2 Sumitomo Electric Industries Major Business

9.3.3 Sumitomo Electric Industries Nickel Foam Electrode Materials Product and Services

9.3.4 Sumitomo Electric Industries Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Sumitomo Electric Industries Recent Developments/Updates

9.3.6 Sumitomo Electric Industries Competitive Strengths & Weaknesses

9.4 Wuzhou Sanhe New Material

9.4.1 Wuzhou Sanhe New Material Details

9.4.2 Wuzhou Sanhe New Material Major Business

9.4.3 Wuzhou Sanhe New Material Nickel Foam Electrode Materials Product and Services

9.4.4 Wuzhou Sanhe New Material Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Wuzhou Sanhe New Material Recent Developments/Updates

9.4.6 Wuzhou Sanhe New Material Competitive Strengths & Weaknesses

9.5 Heze Tianyu Technology

9.5.1 Heze Tianyu Technology Details

9.5.2 Heze Tianyu Technology Major Business

9.5.3 Heze Tianyu Technology Nickel Foam Electrode Materials Product and Services

9.5.4 Heze Tianyu Technology Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Heze Tianyu Technology Recent Developments/Updates

9.5.6 Heze Tianyu Technology Competitive Strengths & Weaknesses

9.6 Novamet Specialty Products

9.6.1 Novamet Specialty Products Details

9.6.2 Novamet Specialty Products Major Business

9.6.3 Novamet Specialty Products Nickel Foam Electrode Materials Product and Services

9.6.4 Novamet Specialty Products Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Novamet Specialty Products Recent Developments/Updates

9.6.6 Novamet Specialty Products Competitive Strengths & Weaknesses

9.7 JIA SHI DE

9.7.1 JIA SHI DE Details

9.7.2 JIA SHI DE Major Business

9.7.3 JIA SHI DE Nickel Foam Electrode Materials Product and Services

9.7.4 JIA SHI DE Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 JIA SHI DE Recent Developments/Updates

9.7.6 JIA SHI DE Competitive Strengths & Weaknesses

9.8 Kunshan Jiayisheng

9.8.1 Kunshan Jiayisheng Details

9.8.2 Kunshan Jiayisheng Major Business

9.8.3 Kunshan Jiayisheng Nickel Foam Electrode Materials Product and Services

9.8.4 Kunshan Jiayisheng Nickel Foam Electrode Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Kunshan Jiayisheng Recent Developments/Updates

9.8.6 Kunshan Jiayisheng Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Nickel Foam Electrode Materials Industry Chain

10.2 Nickel Foam Electrode Materials Upstream Analysis

- 10.2.1 Nickel Foam Electrode Materials Core Raw Materials
- 10.2.2 Main Manufacturers of Nickel Foam Electrode Materials Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Nickel Foam Electrode Materials Production Mode
- 10.6 Nickel Foam Electrode Materials Procurement Model
- 10.7 Nickel Foam Electrode Materials Industry Sales Model and Sales Channels
 - 10.7.1 Nickel Foam Electrode Materials Sales Model
 - 10.7.2 Nickel Foam Electrode Materials 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 Nickel Foam Electrode Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Nickel Foam Electrode Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Nickel Foam Electrode Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Nickel Foam Electrode Materials Production Value Market Share by Region (2021-2026)

Table 5. World Nickel Foam Electrode Materials Production Value Market Share by Region (2027-2032)

Table 6. World Nickel Foam Electrode Materials Production by Region (2021-2026) & (K Sqm)

Table 7. World Nickel Foam Electrode Materials Production by Region (2027-2032) & (K Sqm)

Table 8. World Nickel Foam Electrode Materials Production Market Share by Region (2021-2026)

Table 9. World Nickel Foam Electrode Materials Production Market Share by Region (2027-2032)

Table 10. World Nickel Foam Electrode Materials Average Price by Region (2021-2026) & (US\$/Sqm)

Table 11. World Nickel Foam Electrode Materials Average Price by Region (2027-2032) & (US\$/Sqm)

Table 12. Nickel Foam Electrode Materials Major Market Trends

Table 13. World Nickel Foam Electrode Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)

Table 14. World Nickel Foam Electrode Materials Consumption by Region (2021-2026) & (K Sqm)

Table 15. World Nickel Foam Electrode Materials Consumption Forecast by Region (2027-2032) & (K Sqm)

Table 16. World Nickel Foam Electrode Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Nickel Foam Electrode Materials Producers in 2025

Table 18. World Nickel Foam Electrode Materials Production by Manufacturer (2021-2026) & (K Sqm)

Table 19. Production Market Share of Key Nickel Foam Electrode Materials Producers in 2025

Table 20. World Nickel Foam Electrode Materials Average Price by Manufacturer (2021-2026) & (US\$/Sqm)

Table 21. Global Nickel Foam Electrode Materials Company Evaluation Quadrant

Table 22. World Nickel Foam Electrode Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Nickel Foam Electrode Materials Production Site of Key Manufacturer

Table 24. Nickel Foam Electrode Materials Market: Company Product Type Footprint

Table 25. Nickel Foam Electrode Materials Market: Company Product Application Footprint

Table 26. Nickel Foam Electrode Materials Competitive Factors

Table 27. Nickel Foam Electrode Materials New Entrant and Capacity Expansion Plans

Table 28. Nickel Foam Electrode Materials Mergers & Acquisitions Activity

Table 29. United States VS China Nickel Foam Electrode Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Nickel Foam Electrode Materials Production Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 31. United States VS China Nickel Foam Electrode Materials Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 32. United States Based Nickel Foam Electrode Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Nickel Foam Electrode Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Nickel Foam Electrode Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Nickel Foam Electrode Materials Production (2021-2026) & (K Sqm)

Table 36. United States Based Manufacturers Nickel Foam Electrode Materials Production Market Share (2021-2026)

Table 37. China Based Nickel Foam Electrode Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Nickel Foam Electrode Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Nickel Foam Electrode Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Nickel Foam Electrode Materials Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers Nickel Foam Electrode Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Nickel Foam Electrode Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Nickel Foam Electrode Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Nickel Foam Electrode Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Nickel Foam Electrode Materials Production, (2021-2026) & (K Sqm)

Table 46. Rest of World Based Manufacturers Nickel Foam Electrode Materials Production Market Share (2021-2026)

Table 47. World Nickel Foam Electrode Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Nickel Foam Electrode Materials Production by Type (2021-2026) & (K Sqm)

Table 49. World Nickel Foam Electrode Materials Production by Type (2027-2032) & (K Sqm)

Table 50. World Nickel Foam Electrode Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Nickel Foam Electrode Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Nickel Foam Electrode Materials Average Price by Type (2021-2026) & (US\$/Sqm)

Table 53. World Nickel Foam Electrode Materials Average Price by Type (2027-2032) & (US\$/Sqm)

Table 54. World Nickel Foam Electrode Materials Production Value by Pore ??Density, (USD Million), 2021 & 2025 & 2032

Table 55. World Nickel Foam Electrode Materials Production by Pore ??Density (2021-2026) & (K Sqm)

Table 56. World Nickel Foam Electrode Materials Production by Pore ??Density (2027-2032) & (K Sqm)

Table 57. World Nickel Foam Electrode Materials Production Value by Pore ??Density (2021-2026) & (USD Million)

Table 58. World Nickel Foam Electrode Materials Production Value by Pore ??Density (2027-2032) & (USD Million)

Table 59. World Nickel Foam Electrode Materials Average Price by Pore ??Density (2021-2026) & (US\$/Sqm)

Table 60. World Nickel Foam Electrode Materials Average Price by Pore ??Density

(2027-2032) & (US\$/Sqm)

Table 61. World Nickel Foam Electrode Materials Production Value by Thickness, (USD Million), 2021 & 2025 & 2032

Table 62. World Nickel Foam Electrode Materials Production by Thickness (2021-2026) & (K Sqm)

Table 63. World Nickel Foam Electrode Materials Production by Thickness (2027-2032) & (K Sqm)

Table 64. World Nickel Foam Electrode Materials Production Value by Thickness (2021-2026) & (USD Million)

Table 65. World Nickel Foam Electrode Materials Production Value by Thickness (2027-2032) & (USD Million)

Table 66. World Nickel Foam Electrode Materials Average Price by Thickness (2021-2026) & (US\$/Sqm)

Table 67. World Nickel Foam Electrode Materials Average Price by Thickness (2027-2032) & (US\$/Sqm)

Table 68. World Nickel Foam Electrode Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Nickel Foam Electrode Materials Production by Application (2021-2026) & (K Sqm)

Table 70. World Nickel Foam Electrode Materials Production by Application (2027-2032) & (K Sqm)

Table 71. World Nickel Foam Electrode Materials Production Value by Application (2021-2026) & (USD Million)

Table 72. World Nickel Foam Electrode Materials Production Value by Application (2027-2032) & (USD Million)

Table 73. World Nickel Foam Electrode Materials Average Price by Application (2021-2026) & (US\$/Sqm)

Table 74. World Nickel Foam Electrode Materials Average Price by Application (2027-2032) & (US\$/Sqm)

Table 75. Hunan Corun Basic Information, Manufacturing Base and Competitors

Table 76. Hunan Corun Major Business

Table 77. Hunan Corun Nickel Foam Electrode Materials Product and Services

Table 78. Hunan Corun Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hunan Corun Recent Developments/Updates

Table 80. Hunan Corun Competitive Strengths & Weaknesses

Table 81. Alantum Basic Information, Manufacturing Base and Competitors

Table 82. Alantum Major Business

Table 83. Alantum Nickel Foam Electrode Materials Product and Services

Table 84. Alantum Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Alantum Recent Developments/Updates

Table 86. Alantum Competitive Strengths & Weaknesses

Table 87. Sumitomo Electric Industries Basic Information, Manufacturing Base and Competitors

Table 88. Sumitomo Electric Industries Major Business

Table 89. Sumitomo Electric Industries Nickel Foam Electrode Materials Product and Services

Table 90. Sumitomo Electric Industries Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Sumitomo Electric Industries Recent Developments/Updates

Table 92. Sumitomo Electric Industries Competitive Strengths & Weaknesses

Table 93. Wuzhou Sanhe New Material Basic Information, Manufacturing Base and Competitors

Table 94. Wuzhou Sanhe New Material Major Business

Table 95. Wuzhou Sanhe New Material Nickel Foam Electrode Materials Product and Services

Table 96. Wuzhou Sanhe New Material Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Wuzhou Sanhe New Material Recent Developments/Updates

Table 98. Wuzhou Sanhe New Material Competitive Strengths & Weaknesses

Table 99. Heze Tianyu Technology Basic Information, Manufacturing Base and Competitors

Table 100. Heze Tianyu Technology Major Business

Table 101. Heze Tianyu Technology Nickel Foam Electrode Materials Product and Services

Table 102. Heze Tianyu Technology Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Heze Tianyu Technology Recent Developments/Updates

Table 104. Heze Tianyu Technology Competitive Strengths & Weaknesses

Table 105. Novamet Specialty Products Basic Information, Manufacturing Base and Competitors

Table 106. Novamet Specialty Products Major Business

Table 107. Novamet Specialty Products Nickel Foam Electrode Materials Product and Services

Table 108. Novamet Specialty Products Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Novamet Specialty Products Recent Developments/Updates

Table 110. Novamet Specialty Products Competitive Strengths & Weaknesses

Table 111. JIA SHI DE Basic Information, Manufacturing Base and Competitors

Table 112. JIA SHI DE Major Business

Table 113. JIA SHI DE Nickel Foam Electrode Materials Product and Services

Table 114. JIA SHI DE Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. JIA SHI DE Recent Developments/Updates

Table 116. JIA SHI DE Competitive Strengths & Weaknesses

Table 117. Kunshan Jiayisheng Basic Information, Manufacturing Base and Competitors

Table 118. Kunshan Jiayisheng Major Business

Table 119. Kunshan Jiayisheng Nickel Foam Electrode Materials Product and Services

Table 120. Kunshan Jiayisheng Nickel Foam Electrode Materials Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Kunshan Jiayisheng Recent Developments/Updates

Table 122. Kunshan Jiayisheng Competitive Strengths & Weaknesses

Table 123. Global Key Players of Nickel Foam Electrode Materials Upstream (Raw Materials)

Table 124. Global Nickel Foam Electrode Materials Typical Customers

Table 125. Nickel Foam Electrode Materials Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Nickel Foam Electrode Materials Picture

Figure 2. World Nickel Foam Electrode Materials Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Nickel Foam Electrode Materials Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Nickel Foam Electrode Materials Production (2021-2032) & (K Sqm)

Figure 5. World Nickel Foam Electrode Materials Average Price (2021-2032) & (US\$/Sqm)

Figure 6. World Nickel Foam Electrode Materials Production Value Market Share by Region (2021-2032)

Figure 7. World Nickel Foam Electrode Materials Production Market Share by Region (2021-2032)

Figure 8. China Nickel Foam Electrode Materials Production (2021-2032) & (K Sqm)

Figure 9. Japan Nickel Foam Electrode Materials Production (2021-2032) & (K Sqm)

Figure 10. North America Nickel Foam Electrode Materials Production (2021-2032) & (K Sqm)

Figure 11. Nickel Foam Electrode Materials Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 14. World Nickel Foam Electrode Materials Consumption Market Share by Region (2021-2032)

Figure 15. United States Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 16. China Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 17. Europe Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 18. Japan Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 19. South Korea Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 20. ASEAN Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 21. India Nickel Foam Electrode Materials Consumption (2021-2032) & (K Sqm)

Figure 22. Producer Shipments of Nickel Foam Electrode Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Nickel Foam Electrode

Materials Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Nickel Foam Electrode Materials Markets in 2025

Figure 25. United States VS China: Nickel Foam Electrode Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Nickel Foam Electrode Materials Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Nickel Foam Electrode Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Nickel Foam Electrode Materials Production Market Share 2025

Figure 29. China Based Manufacturers Nickel Foam Electrode Materials Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Nickel Foam Electrode Materials Production Market Share 2025

Figure 31. World Nickel Foam Electrode Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Nickel Foam Electrode Materials Production Value Market Share by Type in 2025

Figure 33. Continuous Nickel Foam

Figure 34. Special Nickel Foam

Figure 35. World Nickel Foam Electrode Materials Production Market Share by Type (2021-2032)

Figure 36. World Nickel Foam Electrode Materials Production Value Market Share by Type (2021-2032)

Figure 37. World Nickel Foam Electrode Materials Average Price by Type (2021-2032) & (US\$/Sqm)

Figure 38. World Nickel Foam Electrode Materials Production Value by Pore Density, (USD Million), 2021 & 2025 & 2032

Figure 39. World Nickel Foam Electrode Materials Production Value Market Share by Pore Density in 2025

Figure 40. Coarse-pored (<30 PPI)

Figure 41. Medium-pored (30–100 PPI)

Figure 42. Fine-pored (>100 PPI)

Figure 43. World Nickel Foam Electrode Materials Production Market Share by Pore Density (2021-2032)

Figure 44. World Nickel Foam Electrode Materials Production Value Market Share by Pore Density (2021-2032)

Figure 45. World Nickel Foam Electrode Materials Average Price by Pore Density

(2021-2032) & (US\$/Sqm)

Figure 46. World Nickel Foam Electrode Materials Production Value by Thickness, (USD Million), 2021 & 2025 & 2032

Figure 47. World Nickel Foam Electrode Materials Production Value Market Share by Thickness in 2025

Figure 48. Thickness <2mm

Figure 49. Thickness 2–5mm

Figure 50. Thickness >5mm

Figure 51. World Nickel Foam Electrode Materials Production Market Share by Thickness (2021-2032)

Figure 52. World Nickel Foam Electrode Materials Production Value Market Share by Thickness (2021-2032)

Figure 53. World Nickel Foam Electrode Materials Average Price by Thickness (2021-2032) & (US\$/Sqm)

Figure 54. World Nickel Foam Electrode Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Nickel Foam Electrode Materials Production Value Market Share by Application in 2025

Figure 56. Ni-MH Power Batteries

Figure 57. Consumer Nickel-Based Batteries

Figure 58. Hydrogen Production Electrolyzers

Figure 59. Supercapacitors

Figure 60. Others

Figure 61. World Nickel Foam Electrode Materials Production Market Share by Application (2021-2032)

Figure 62. World Nickel Foam Electrode Materials Production Value Market Share by Application (2021-2032)

Figure 63. World Nickel Foam Electrode Materials Average Price by Application (2021-2032) & (US\$/Sqm)

Figure 64. Nickel Foam Electrode Materials Industry Chain

Figure 65. Nickel Foam Electrode Materials Procurement Model

Figure 66. Nickel Foam Electrode Materials Sales Model

Figure 67. Nickel Foam Electrode Materials Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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