

Global Nano-graphite Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nano-graphite Powder market size is expected to reach \$ 1355 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Nano-graphite Powder refers to a high-performance carbon nanomaterial with particle sizes typically ranging from 10 nm to several hundred nanometers, produced through processes such as mechanical milling, airflow pulverization, chemical exfoliation, liquid-phase dispersion, thermal treatment, and surface modification of natural graphite, synthetic graphite, high-purity graphite, or graphite-based precursors. The material combines excellent electrical conductivity, thermal conductivity, lubrication performance, high-temperature resistance, chemical stability, and reinforcement capability for composite materials. This market research focuses on nano-graphite powder products used as functional carbon additives and advanced material components across lithium-ion batteries, energy storage materials, conductive pastes, polymer composites, thermal management materials, coatings, lubricants, electronics, automotive materials, and advanced industrial applications.

Key Findings

Global nano-graphite powder shipments reached approximately 185 thousand tons in 2025 with average prices around US\$4,800 per ton

Global production capacity reached approximately 250 thousand tons annually in 2025 with average gross margins of 25%–40%

Lithium-ion batteries and energy storage represent the largest application

segment for nano-graphite powder consumption

Particle sizes between 10 nm and 100 nm represent the mainstream high-performance nano-graphite product range

Asia-Pacific is the major production and consumption region driven by graphite resources and battery material manufacturing

Market Trends

The nano-graphite powder industry is evolving toward higher purity, smaller particle sizes, improved conductivity, and application-specific functionalization. Manufacturers are increasingly optimizing purification technologies, particle size control processes, surface modification techniques, and dispersion technologies to meet the performance requirements of advanced batteries, electronic materials, and composite systems. High-performance products with purity above 99.5%, controlled particle distribution, and customized surface characteristics are gaining importance in premium applications. The integration of nano-graphite powder with graphene-based materials, silicon-based anode systems, thermal interface materials, and advanced polymer composites is creating new technology pathways. In addition, environmentally friendly graphite processing, lower-energy production routes, and improved resource utilization are becoming important development directions as downstream industries strengthen sustainability requirements.

Market Dynamics

Drivers

The rapid expansion of electric vehicles, renewable energy storage systems, and consumer electronics is a major driver for nano-graphite powder demand. The increasing requirements for higher battery energy density, faster charging capability, improved thermal management, and enhanced electrical conductivity are encouraging battery manufacturers and material suppliers to adopt advanced graphite-based additives. Growth in lightweight automotive components, aerospace composites, electronic heat dissipation materials, and functional coatings is further expanding application opportunities. The development of high-performance composite materials and advanced manufacturing technologies is also supporting broader adoption of nano-

graphite powder.

Restraints

The nano-graphite powder market faces limitations from high production costs, complex processing requirements, and strict quality control requirements. Achieving stable nanoscale particle distribution, high purity, and consistent surface properties requires advanced equipment and specialized manufacturing capabilities. Raw material price fluctuations, particularly for high-quality graphite resources, may affect production economics. In addition, competition from alternative carbon materials such as graphene, carbon nanotubes, and other conductive additives creates substitution pressure in certain high-end applications.

Opportunities

Future market opportunities are concentrated in high-performance battery materials, next-generation energy storage technologies, thermal management systems, and advanced composite applications. The increasing demand for fast-charging batteries, solid-state batteries, lightweight transportation materials, and high-power electronic devices creates opportunities for nano-graphite suppliers with strong material engineering capabilities. Companies capable of integrating graphite purification, nano-processing, surface modification, and application development are expected to capture additional value in emerging markets.

Challenges

The industry faces challenges related to technology differentiation, large-scale commercialization, and supply chain optimization. Maintaining consistent nano-scale quality during mass production remains a key technical challenge. Companies must balance production efficiency, environmental requirements, and product performance while reducing manufacturing costs. In addition, fluctuations in graphite supply chains, stricter environmental regulations, and competition among advanced carbon material technologies may increase market uncertainty.

Industry Chain Analysis

The nano-graphite powder industry chain consists of upstream graphite resources and processing materials, midstream nano-material manufacturing, and downstream application industries. The upstream segment mainly includes natural flake graphite, synthetic graphite, high-purity graphite powder, graphite-based carbon materials, dispersants, surface modifiers, and processing additives. High-purity graphite resources, graphite purification, and energy-intensive processing represent major cost components. The midstream segment includes carbon material manufacturers, nano-material companies, and functional powder producers responsible for purification, nano-scale processing, particle size control, surface modification, quality inspection, and application formulation development. The downstream segment covers lithium-ion battery manufacturers, energy storage companies, electronic material suppliers, automotive component producers, composite material manufacturers, lubricant companies, and advanced equipment manufacturers. Value creation is concentrated in material purity improvement, particle engineering, functional modification, and customized solutions for high-value applications.

Segment Insights

Nano-graphite powder can be segmented by raw material source, particle size, purity level, and application field. By source, products are mainly divided into natural graphite nanopowder and artificial graphite nanopowder. Natural graphite-based products benefit from resource availability and cost advantages, while synthetic graphite products provide better structural control and performance consistency for advanced applications. By particle size, products are commonly classified into 10–50 nm, 50–100 nm, and 100–500 nm ranges, with smaller particle sizes generally providing higher surface activity and improved functional performance. By purity, products are divided into standard purity, high purity, and ultra-high purity grades, with high-purity products mainly targeting battery, electronic, and advanced composite applications. By application, lithium-ion batteries and energy storage represent the largest demand area, while conductive materials, thermal management materials, composite materials, and specialty coatings provide additional growth opportunities.

Downstream Market Opportunities

The downstream market for nano-graphite powder is mainly driven by advanced battery materials, conductive components, composite structures, and thermal management applications. Lithium-ion battery manufacturers represent the most important customer group due to the increasing use of graphite-based functional additives in improving

electrical conductivity and material performance. Automotive electrification, energy storage systems, electronics miniaturization, and lightweight industrial equipment are creating additional demand. Emerging opportunities are expected in high-performance thermal interface materials, aerospace composites, semiconductor-related heat dissipation systems, and multifunctional coatings requiring improved conductivity and mechanical reinforcement.

Regional Insights

Asia-Pacific represents the largest production and consumption region for nano-graphite powder due to its strong graphite resource base, established carbon material manufacturing ecosystem, and dominant position in lithium-ion battery supply chains. China has become a key hub for graphite processing, battery material production, and functional carbon material development. Japan and South Korea maintain advantages in high-end material technologies and advanced electronic applications. North America and Europe show increasing demand driven by battery localization strategies, clean energy development, advanced manufacturing, and high-performance material applications. Regional competition is increasingly focused on supply chain security, high-purity material production, and customized solutions for strategic industries.

Competitive Landscape Analysis

The nano-graphite powder market presents a diversified competitive landscape involving global nanomaterial suppliers, graphite processing companies, specialty carbon material manufacturers, and advanced material providers. Companies such as US Research Nanomaterials, American Elements, Stanford Advanced Materials, SAT NANO, XF Nano, HONGWU, Jinsun Carbon, and REINSTE participate in the market through nano-carbon material production, functional powder supply, and customized material solutions. Competition is mainly concentrated around raw material control, purification capability, particle size management, surface modification technology, application support, and production scalability. Leading suppliers with integrated graphite processing capabilities and strong downstream cooperation are better positioned in high-value applications including batteries, electronics, and advanced composites.

Report Scope

This report studies the global Nano-graphite Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nano-graphite Powder 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 Nano-graphite Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nano-graphite Powder total production and demand, 2021-2032, (Kilotons)

Global Nano-graphite Powder total production value, 2021-2032, (USD Million)

Global Nano-graphite Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Nano-graphite Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Nano-graphite Powder domestic production, consumption, key domestic manufacturers and share

Global Nano-graphite Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Nano-graphite Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Nano-graphite Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Nano-graphite Powder 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 US Research Nanomaterials, American Elements, Graphite Central, SAT NANO, Stanford Advanced Materials, XF Nano, HONGWU, Jinsun Carbon, REINSTE, 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 Nano-graphite Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Nano-graphite Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Nano-graphite Powder Market, Segmentation by Type:

Natural Graphite Nanopowder

Artificial Graphite Nanopowder

Global Nano-graphite Powder Market, Segmentation by Particle Size:

Particle Size: 10 nm–50 nm

Particle Size: 50 nm–100 nm

Particle Size: 100 nm–500 nm

Others

Global Nano-graphite Powder Market, Segmentation by Graphite Purity:

Graphite Purity: 90%–95%

Graphite Purity: 95.1%–99.5%

Graphite Purity: >99.5%

Global Nano-graphite Powder Market, Segmentation by Application:

Lithium-ion Batteries and Energy Storage

Conductive Materials and Electronic Pastes

Composite Materials

Thermal Management Materials

Others

Companies Profiled:

US Research Nanomaterials

American Elements

Graphite Central

SAT NANO

Stanford Advanced Materials

XF Nano

HONGWU

Jinsun Carbon

REINSTE

Key Questions Answered

1. How big is the global Nano-graphite Powder market?
2. What is the demand of the global Nano-graphite Powder market?
3. What is the year over year growth of the global Nano-graphite Powder market?
4. What is the total value of the global Nano-graphite Powder market?
5. Who are the Major Players in the global Nano-graphite Powder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Nano-graphite Powder Production Value by Manufacturer (2021-2026)

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

4.4.2 United States Based Manufacturers Nano-graphite Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Nano-graphite Powder Production (2021-2026)

4.5 China Based Nano-graphite Powder Manufacturers and Market Share

4.5.1 China Based Nano-graphite Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Nano-graphite Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers Nano-graphite Powder Production (2021-2026)

4.6 Rest of World Based Nano-graphite Powder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Nano-graphite Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Nano-graphite Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Nano-graphite Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Nano-graphite Powder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Natural Graphite Nanopowder

5.2.2 Artificial Graphite Nanopowder

5.3 Market Segment by Type

5.3.1 World Nano-graphite Powder Production by Type (2021-2032)

5.3.2 World Nano-graphite Powder Production Value by Type (2021-2032)

5.3.3 World Nano-graphite Powder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PARTICLE SIZE

6.1 World Nano-graphite Powder Market Size Overview by Particle Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Particle Size

6.2.1 Particle Size: 10 nm–50 nm

6.2.2 Particle Size: 50 nm–100 nm

6.2.3 Particle Size: 100 nm–500 nm

6.2.4 Others

6.3 Market Segment by Particle Size

6.3.1 World Nano-graphite Powder Production by Particle Size (2021-2032)

6.3.2 World Nano-graphite Powder Production Value by Particle Size (2021-2032)

6.3.3 World Nano-graphite Powder Average Price by Particle Size (2021-2032)

7 MARKET ANALYSIS BY GRAPHITE PURITY

7.1 World Nano-graphite Powder Market Size Overview by Graphite Purity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Graphite Purity

7.2.1 Graphite Purity: 90%–95%

7.2.2 Graphite Purity: 95.1%–99.5%

7.2.3 Graphite Purity: >99.5%

7.3 Market Segment by Graphite Purity

7.3.1 World Nano-graphite Powder Production by Graphite Purity (2021-2032)

7.3.2 World Nano-graphite Powder Production Value by Graphite Purity (2021-2032)

7.3.3 World Nano-graphite Powder Average Price by Graphite Purity (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Nano-graphite Powder Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Lithium-ion Batteries and Energy Storage

8.2.2 Conductive Materials and Electronic Pastes

8.2.3 Composite Materials

8.2.4 Thermal Management Materials

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Nano-graphite Powder Production by Application (2021-2032)

8.3.2 World Nano-graphite Powder Production Value by Application (2021-2032)

8.3.3 World Nano-graphite Powder Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 US Research Nanomaterials

9.1.1 US Research Nanomaterials Details

9.1.2 US Research Nanomaterials Major Business

- 9.1.3 US Research Nanomaterials Nano-graphite Powder Product and Services
- 9.1.4 US Research Nanomaterials Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 US Research Nanomaterials Recent Developments/Updates
- 9.1.6 US Research Nanomaterials Competitive Strengths & Weaknesses
- 9.2 American Elements
 - 9.2.1 American Elements Details
 - 9.2.2 American Elements Major Business
 - 9.2.3 American Elements Nano-graphite Powder Product and Services
 - 9.2.4 American Elements Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 American Elements Recent Developments/Updates
 - 9.2.6 American Elements Competitive Strengths & Weaknesses
- 9.3 Graphite Central
 - 9.3.1 Graphite Central Details
 - 9.3.2 Graphite Central Major Business
 - 9.3.3 Graphite Central Nano-graphite Powder Product and Services
 - 9.3.4 Graphite Central Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Graphite Central Recent Developments/Updates
 - 9.3.6 Graphite Central Competitive Strengths & Weaknesses
- 9.4 SAT NANO
 - 9.4.1 SAT NANO Details
 - 9.4.2 SAT NANO Major Business
 - 9.4.3 SAT NANO Nano-graphite Powder Product and Services
 - 9.4.4 SAT NANO Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 SAT NANO Recent Developments/Updates
 - 9.4.6 SAT NANO Competitive Strengths & Weaknesses
- 9.5 Stanford Advanced Materials
 - 9.5.1 Stanford Advanced Materials Details
 - 9.5.2 Stanford Advanced Materials Major Business
 - 9.5.3 Stanford Advanced Materials Nano-graphite Powder Product and Services
 - 9.5.4 Stanford Advanced Materials Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Stanford Advanced Materials Recent Developments/Updates
 - 9.5.6 Stanford Advanced Materials Competitive Strengths & Weaknesses
- 9.6 XF Nano
 - 9.6.1 XF Nano Details

- 9.6.2 XF Nano Major Business
- 9.6.3 XF Nano Nano-graphite Powder Product and Services
- 9.6.4 XF Nano Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 XF Nano Recent Developments/Updates
- 9.6.6 XF Nano Competitive Strengths & Weaknesses
- 9.7 HONGWU
 - 9.7.1 HONGWU Details
 - 9.7.2 HONGWU Major Business
 - 9.7.3 HONGWU Nano-graphite Powder Product and Services
 - 9.7.4 HONGWU Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 HONGWU Recent Developments/Updates
 - 9.7.6 HONGWU Competitive Strengths & Weaknesses
- 9.8 Jinsun Carbon
 - 9.8.1 Jinsun Carbon Details
 - 9.8.2 Jinsun Carbon Major Business
 - 9.8.3 Jinsun Carbon Nano-graphite Powder Product and Services
 - 9.8.4 Jinsun Carbon Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Jinsun Carbon Recent Developments/Updates
 - 9.8.6 Jinsun Carbon Competitive Strengths & Weaknesses
- 9.9 REINSTE
 - 9.9.1 REINSTE Details
 - 9.9.2 REINSTE Major Business
 - 9.9.3 REINSTE Nano-graphite Powder Product and Services
 - 9.9.4 REINSTE Nano-graphite Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 REINSTE Recent Developments/Updates
 - 9.9.6 REINSTE Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Nano-graphite Powder Industry Chain
- 10.2 Nano-graphite Powder Upstream Analysis
 - 10.2.1 Nano-graphite Powder Core Raw Materials
 - 10.2.2 Main Manufacturers of Nano-graphite Powder Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

10.5 Nano-graphite Powder Production Mode

10.6 Nano-graphite Powder Procurement Model

10.7 Nano-graphite Powder Industry Sales Model and Sales Channels

10.7.1 Nano-graphite Powder Sales Model

10.7.2 Nano-graphite Powder 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 Nano-graphite Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Nano-graphite Powder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Nano-graphite Powder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Nano-graphite Powder Production Value Market Share by Region (2021-2026)

Table 5. World Nano-graphite Powder Production Value Market Share by Region (2027-2032)

Table 6. World Nano-graphite Powder Production by Region (2021-2026) & (Kilotons)

Table 7. World Nano-graphite Powder Production by Region (2027-2032) & (Kilotons)

Table 8. World Nano-graphite Powder Production Market Share by Region (2021-2026)

Table 9. World Nano-graphite Powder Production Market Share by Region (2027-2032)

Table 10. World Nano-graphite Powder Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Nano-graphite Powder Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Nano-graphite Powder Major Market Trends

Table 13. World Nano-graphite Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Nano-graphite Powder Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Nano-graphite Powder Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Nano-graphite Powder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Nano-graphite Powder Producers in 2025

Table 18. World Nano-graphite Powder Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Nano-graphite Powder Producers in 2025

Table 20. World Nano-graphite Powder Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Nano-graphite Powder Company Evaluation Quadrant

Table 22. World Nano-graphite Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Nano-graphite Powder Production Site of Key Manufacturer

Table 24. Nano-graphite Powder Market: Company Product Type Footprint

Table 25. Nano-graphite Powder Market: Company Product Application Footprint

Table 26. Nano-graphite Powder Competitive Factors

Table 27. Nano-graphite Powder New Entrant and Capacity Expansion Plans

Table 28. Nano-graphite Powder Mergers & Acquisitions Activity

Table 29. United States VS China Nano-graphite Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Nano-graphite Powder Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Nano-graphite Powder Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Nano-graphite Powder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Nano-graphite Powder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Nano-graphite Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Nano-graphite Powder Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Nano-graphite Powder Production Market Share (2021-2026)

Table 37. China Based Nano-graphite Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Nano-graphite Powder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Nano-graphite Powder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Nano-graphite Powder Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Nano-graphite Powder Production Market Share (2021-2026)

Table 42. Rest of World Based Nano-graphite Powder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Nano-graphite Powder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Nano-graphite Powder Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Nano-graphite Powder Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Nano-graphite Powder Production Market Share (2021-2026)

Table 47. World Nano-graphite Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Nano-graphite Powder Production by Type (2021-2026) & (Kilotons)

Table 49. World Nano-graphite Powder Production by Type (2027-2032) & (Kilotons)

Table 50. World Nano-graphite Powder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Nano-graphite Powder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Nano-graphite Powder Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Nano-graphite Powder Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Nano-graphite Powder Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Table 55. World Nano-graphite Powder Production by Particle Size (2021-2026) & (Kilotons)

Table 56. World Nano-graphite Powder Production by Particle Size (2027-2032) & (Kilotons)

Table 57. World Nano-graphite Powder Production Value by Particle Size (2021-2026) & (USD Million)

Table 58. World Nano-graphite Powder Production Value by Particle Size (2027-2032) & (USD Million)

Table 59. World Nano-graphite Powder Average Price by Particle Size (2021-2026) & (US\$/Ton)

Table 60. World Nano-graphite Powder Average Price by Particle Size (2027-2032) & (US\$/Ton)

Table 61. World Nano-graphite Powder Production Value by Graphite Purity, (USD Million), 2021 & 2025 & 2032

Table 62. World Nano-graphite Powder Production by Graphite Purity (2021-2026) & (Kilotons)

Table 63. World Nano-graphite Powder Production by Graphite Purity (2027-2032) & (Kilotons)

Table 64. World Nano-graphite Powder Production Value by Graphite Purity (2021-2026) & (USD Million)

Table 65. World Nano-graphite Powder Production Value by Graphite Purity (2027-2032) & (USD Million)

Table 66. World Nano-graphite Powder Average Price by Graphite Purity (2021-2026) & (US\$/Ton)

Table 67. World Nano-graphite Powder Average Price by Graphite Purity (2027-2032) & (US\$/Ton)

Table 68. World Nano-graphite Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Nano-graphite Powder Production by Application (2021-2026) & (Kilotons)

Table 70. World Nano-graphite Powder Production by Application (2027-2032) & (Kilotons)

Table 71. World Nano-graphite Powder Production Value by Application (2021-2026) & (USD Million)

Table 72. World Nano-graphite Powder Production Value by Application (2027-2032) & (USD Million)

Table 73. World Nano-graphite Powder Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Nano-graphite Powder Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. US Research Nanomaterials Basic Information, Manufacturing Base and Competitors

Table 76. US Research Nanomaterials Major Business

Table 77. US Research Nanomaterials Nano-graphite Powder Product and Services

Table 78. US Research Nanomaterials Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. US Research Nanomaterials Recent Developments/Updates

Table 80. US Research Nanomaterials Competitive Strengths & Weaknesses

Table 81. American Elements Basic Information, Manufacturing Base and Competitors

Table 82. American Elements Major Business

Table 83. American Elements Nano-graphite Powder Product and Services

Table 84. American Elements Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. American Elements Recent Developments/Updates

Table 86. American Elements Competitive Strengths & Weaknesses

Table 87. Graphite Central Basic Information, Manufacturing Base and Competitors

Table 88. Graphite Central Major Business

Table 89. Graphite Central Nano-graphite Powder Product and Services
Table 90. Graphite Central Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Graphite Central Recent Developments/Updates
Table 92. Graphite Central Competitive Strengths & Weaknesses
Table 93. SAT NANO Basic Information, Manufacturing Base and Competitors
Table 94. SAT NANO Major Business
Table 95. SAT NANO Nano-graphite Powder Product and Services
Table 96. SAT NANO Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. SAT NANO Recent Developments/Updates
Table 98. SAT NANO Competitive Strengths & Weaknesses
Table 99. Stanford Advanced Materials Basic Information, Manufacturing Base and Competitors
Table 100. Stanford Advanced Materials Major Business
Table 101. Stanford Advanced Materials Nano-graphite Powder Product and Services
Table 102. Stanford Advanced Materials Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Stanford Advanced Materials Recent Developments/Updates
Table 104. Stanford Advanced Materials Competitive Strengths & Weaknesses
Table 105. XF Nano Basic Information, Manufacturing Base and Competitors
Table 106. XF Nano Major Business
Table 107. XF Nano Nano-graphite Powder Product and Services
Table 108. XF Nano Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. XF Nano Recent Developments/Updates
Table 110. XF Nano Competitive Strengths & Weaknesses
Table 111. HONGWU Basic Information, Manufacturing Base and Competitors
Table 112. HONGWU Major Business
Table 113. HONGWU Nano-graphite Powder Product and Services
Table 114. HONGWU Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. HONGWU Recent Developments/Updates
Table 116. HONGWU Competitive Strengths & Weaknesses
Table 117. Jinsun Carbon Basic Information, Manufacturing Base and Competitors
Table 118. Jinsun Carbon Major Business
Table 119. Jinsun Carbon Nano-graphite Powder Product and Services

Table 120. Jinsun Carbon Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Jinsun Carbon Recent Developments/Updates

Table 122. Jinsun Carbon Competitive Strengths & Weaknesses

Table 123. REINSTE Basic Information, Manufacturing Base and Competitors

Table 124. REINSTE Major Business

Table 125. REINSTE Nano-graphite Powder Product and Services

Table 126. REINSTE Nano-graphite Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. REINSTE Recent Developments/Updates

Table 128. REINSTE Competitive Strengths & Weaknesses

Table 129. Global Key Players of Nano-graphite Powder Upstream (Raw Materials)

Table 130. Global Nano-graphite Powder Typical Customers

Table 131. Nano-graphite Powder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Nano-graphite Powder Picture

Figure 2. World Nano-graphite Powder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Nano-graphite Powder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Nano-graphite Powder Production (2021-2032) & (Kilotons)

Figure 5. World Nano-graphite Powder Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Nano-graphite Powder Production Value Market Share by Region (2021-2032)

Figure 7. World Nano-graphite Powder Production Market Share by Region (2021-2032)

Figure 8. North America Nano-graphite Powder Production (2021-2032) & (Kilotons)

Figure 9. Europe Nano-graphite Powder Production (2021-2032) & (Kilotons)

Figure 10. China Nano-graphite Powder Production (2021-2032) & (Kilotons)

Figure 11. Japan Nano-graphite Powder Production (2021-2032) & (Kilotons)

Figure 12. Nano-graphite Powder Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 15. World Nano-graphite Powder Consumption Market Share by Region (2021-2032)

Figure 16. United States Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 17. China Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 22. India Nano-graphite Powder Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Nano-graphite Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Nano-graphite Powder Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Nano-graphite Powder Markets in 2025

Figure 26. United States VS China: Nano-graphite Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Nano-graphite Powder Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Nano-graphite Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Nano-graphite Powder Production Market Share 2025

Figure 30. China Based Manufacturers Nano-graphite Powder Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Nano-graphite Powder Production Market Share 2025

Figure 32. World Nano-graphite Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Nano-graphite Powder Production Value Market Share by Type in 2025

Figure 34. Natural Graphite Nanopowder

Figure 35. Artificial Graphite Nanopowder

Figure 36. World Nano-graphite Powder Production Market Share by Type (2021-2032)

Figure 37. World Nano-graphite Powder Production Value Market Share by Type (2021-2032)

Figure 38. World Nano-graphite Powder Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Nano-graphite Powder Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Figure 40. World Nano-graphite Powder Production Value Market Share by Particle Size in 2025

Figure 41. Particle Size: 10 nm–50 nm

Figure 42. Particle Size: 50 nm–100 nm

Figure 43. Particle Size: 100 nm–500 nm

Figure 44. Others

Figure 45. World Nano-graphite Powder Production Market Share by Particle Size (2021-2032)

Figure 46. World Nano-graphite Powder Production Value Market Share by Particle Size (2021-2032)

Figure 47. World Nano-graphite Powder Average Price by Particle Size (2021-2032) & (US\$/Ton)

Figure 48. World Nano-graphite Powder Production Value by Graphite Purity, (USD Million), 2021 & 2025 & 2032

Figure 49. World Nano-graphite Powder Production Value Market Share by Graphite Purity in 2025

Figure 50. Graphite Purity: 90%–95%

Figure 51. Graphite Purity: 95.1%–99.5%

Figure 52. Graphite Purity: >99.5%

Figure 53. World Nano-graphite Powder Production Market Share by Graphite Purity (2021-2032)

Figure 54. World Nano-graphite Powder Production Value Market Share by Graphite Purity (2021-2032)

Figure 55. World Nano-graphite Powder Average Price by Graphite Purity (2021-2032) & (US\$/Ton)

Figure 56. World Nano-graphite Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Nano-graphite Powder Production Value Market Share by Application in 2025

Figure 58. Lithium-ion Batteries and Energy Storage

Figure 59. Conductive Materials and Electronic Pastes

Figure 60. Composite Materials

Figure 61. Thermal Management Materials

Figure 62. Others

Figure 63. World Nano-graphite Powder Production Market Share by Application (2021-2032)

Figure 64. World Nano-graphite Powder Production Value Market Share by Application (2021-2032)

Figure 65. World Nano-graphite Powder Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Nano-graphite Powder Industry Chain

Figure 67. Nano-graphite Powder Procurement Model

Figure 68. Nano-graphite Powder Sales Model

Figure 69. Nano-graphite Powder Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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