

Global Nuclear Grade Graphite Gasket Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Grade Graphite Gasket market size is expected to reach \$ 155 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global nuclear grade graphite gasket production reached approximately 955.8 k sqm, the average price is 88 usd/sqm. A nuclear grade graphite gasket is a specialized type of gasket designed specifically for sealing applications in nuclear power plants and other nuclear-related facilities. These gaskets are made from high-purity graphite material that meets stringent quality and performance standards required for nuclear applications.

Market Concentration and Major Players:

Internationally, the market for nuclear-grade graphite gaskets is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include companies like James Walker Group and Garlock. Domestically, the nuclear-grade graphite gasket market still has significant room for growth.

Manufacturing Process and Market Trends:

The manufacturing process of nuclear-grade graphite gaskets begins with high-purity flake graphite undergoing acid intercalation and high-temperature instantaneous expansion to obtain worm-like expanded graphite. This is then controlled-density calendering into flexible graphite sheets, followed by batch-level physicochemical and radiation resistance verification. Subsequently, it is formed through molding or winding processes. The winding process uses alternating V-shaped stainless steel strips and

graphite fillers, with inner and outer positioning rings. For pure graphite or reinforced gaskets, metal foil or fiber reinforcement layers are introduced on the side of the sheet to enhance compressive creep resistance. All metal parts undergo low-sulfur and low-chlorine cleaning and surface control to prevent stress corrosion of stainless steel. After assembly, under an RCC-M cleanroom and traceability framework, helium leak testing, dimensional verification, and complete batch file sealing are performed. The real difference lies not in the molding method, but in locking down the entire chain of fixed carbon ash, halogen metal impurities, and post-irradiation rebound relaxation, and being able to produce audit-grade material certificates.

Globally, the market is driven by both nuclear power plant life extension and new construction, but the procurement logic is highly qualification-driven. The certification cycles of ASME III/RCC-M/EDF-PMUC, etc., restrict the supply to a few players with a history of nuclear island access. The Asia-Pacific region undertakes most of the new capacity, while Europe and the United States rely on replacing parts of existing power plants and customizing new SMR reactor types for incremental capacity. Therefore, the main focus of competition has shifted from parameter tables to who can reliably deliver auditable and traceable sealing life rather than who is the cheapest.

This report studies the global Nuclear Grade Graphite Gasket production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Grade Graphite Gasket 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 Nuclear Grade Graphite Gasket that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Grade Graphite Gasket total production and demand, 2021-2032, (K Sqm)

Global Nuclear Grade Graphite Gasket total production value, 2021-2032, (USD Million)

Global Nuclear Grade Graphite Gasket production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Nuclear Grade Graphite Gasket consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Nuclear Grade Graphite Gasket domestic production, consumption, key domestic manufacturers and share

Global Nuclear Grade Graphite Gasket production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (K Sqm)

Global Nuclear Grade Graphite Gasket production by Thickness, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Nuclear Grade Graphite Gasket production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Nuclear Grade Graphite Gasket 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 SUNWELL SEALS, Garlock, James Walker Group, Mersen, SGL Carbon, Binzhou Double Peaks Graphite Sealing Materials, CiXi Feite Sealing Material, Ningbo Ruiyi Sealing Materials, Suzhou Baojun Sealing Technology, Zhejiang Guotai Xiaoxing Sealing Materials, 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 Nuclear Grade Graphite Gasket market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, by Thickness, 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 Nuclear Grade Graphite Gasket Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Graphite Gasket Market, Segmentation by Thickness:

0.98

0.99

Global Nuclear Grade Graphite Gasket Market, Segmentation by Application:

Nuclear Industrial

Scientific Research

Companies Profiled:

SUNWELL SEALS

Garlock

James Walker Group

Mersen

SGL Carbon

Binzhou Double Peaks Graphite Sealing Materials

CiXi Feite Sealing Material

Ningbo Ruiyi Sealing Materials

Suzhou Baojun Sealing Technology

Zhejiang Guotai Xiaoxing Sealing Materials

Key Questions Answered:

1. How big is the global Nuclear Grade Graphite Gasket market?
2. What is the demand of the global Nuclear Grade Graphite Gasket market?
3. What is the year over year growth of the global Nuclear Grade Graphite Gasket market?
4. What is the production and production value of the global Nuclear Grade Graphite Gasket market?
5. Who are the key producers in the global Nuclear Grade Graphite Gasket market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Share, 2021-2026

4.4.1 United States Based Nuclear Grade Graphite Gasket Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Nuclear Grade Graphite Gasket Production Value (2021-2026)

4.4.3 United States Based Manufacturers Nuclear Grade Graphite Gasket Production (2021-2026)

4.5 China Based Nuclear Grade Graphite Gasket Manufacturers and Market Share

4.5.1 China Based Nuclear Grade Graphite Gasket Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Nuclear Grade Graphite Gasket Production Value (2021-2026)

4.5.3 China Based Manufacturers Nuclear Grade Graphite Gasket Production (2021-2026)

4.6 Rest of World Based Nuclear Grade Graphite Gasket Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Nuclear Grade Graphite Gasket Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production (2021-2026)

5 MARKET ANALYSIS BY THICKNESS

5.1 World Nuclear Grade Graphite Gasket Market Size Overview by Thickness: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Thickness

5.2.1 0.98

5.2.2 0.99

5.3 Market Segment by Thickness

5.3.1 World Nuclear Grade Graphite Gasket Production by Thickness (2021-2032)

5.3.2 World Nuclear Grade Graphite Gasket Production Value by Thickness (2021-2032)

5.3.3 World Nuclear Grade Graphite Gasket Average Price by Thickness (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Nuclear Grade Graphite Gasket Market Size Overview by Application: 2021

VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Nuclear Industrial

6.2.2 Scientific Research

6.3 Market Segment by Application

6.3.1 World Nuclear Grade Graphite Gasket Production by Application (2021-2032)

6.3.2 World Nuclear Grade Graphite Gasket Production Value by Application (2021-2032)

6.3.3 World Nuclear Grade Graphite Gasket Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 SUNWELL SEALS

7.1.1 SUNWELL SEALS Details

7.1.2 SUNWELL SEALS Major Business

7.1.3 SUNWELL SEALS Nuclear Grade Graphite Gasket Product and Services

7.1.4 SUNWELL SEALS Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 SUNWELL SEALS Recent Developments/Updates

7.1.6 SUNWELL SEALS Competitive Strengths & Weaknesses

7.2 Garlock

7.2.1 Garlock Details

7.2.2 Garlock Major Business

7.2.3 Garlock Nuclear Grade Graphite Gasket Product and Services

7.2.4 Garlock Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 Garlock Recent Developments/Updates

7.2.6 Garlock Competitive Strengths & Weaknesses

7.3 James Walker Group

7.3.1 James Walker Group Details

7.3.2 James Walker Group Major Business

7.3.3 James Walker Group Nuclear Grade Graphite Gasket Product and Services

7.3.4 James Walker Group Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.3.5 James Walker Group Recent Developments/Updates

7.3.6 James Walker Group Competitive Strengths & Weaknesses

7.4 Mersen

7.4.1 Mersen Details

7.4.2 Mersen Major Business

- 7.4.3 Mersen Nuclear Grade Graphite Gasket Product and Services
- 7.4.4 Mersen Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.4.5 Mersen Recent Developments/Updates
- 7.4.6 Mersen Competitive Strengths & Weaknesses
- 7.5 SGL Carbon
 - 7.5.1 SGL Carbon Details
 - 7.5.2 SGL Carbon Major Business
 - 7.5.3 SGL Carbon Nuclear Grade Graphite Gasket Product and Services
 - 7.5.4 SGL Carbon Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.5.5 SGL Carbon Recent Developments/Updates
 - 7.5.6 SGL Carbon Competitive Strengths & Weaknesses
- 7.6 Binzhou Double Peaks Graphite Sealing Materials
 - 7.6.1 Binzhou Double Peaks Graphite Sealing Materials Details
 - 7.6.2 Binzhou Double Peaks Graphite Sealing Materials Major Business
 - 7.6.3 Binzhou Double Peaks Graphite Sealing Materials Nuclear Grade Graphite Gasket Product and Services
 - 7.6.4 Binzhou Double Peaks Graphite Sealing Materials Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.6.5 Binzhou Double Peaks Graphite Sealing Materials Recent Developments/Updates
 - 7.6.6 Binzhou Double Peaks Graphite Sealing Materials Competitive Strengths & Weaknesses
- 7.7 CiXi Feite Sealing Material
 - 7.7.1 CiXi Feite Sealing Material Details
 - 7.7.2 CiXi Feite Sealing Material Major Business
 - 7.7.3 CiXi Feite Sealing Material Nuclear Grade Graphite Gasket Product and Services
 - 7.7.4 CiXi Feite Sealing Material Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.7.5 CiXi Feite Sealing Material Recent Developments/Updates
 - 7.7.6 CiXi Feite Sealing Material Competitive Strengths & Weaknesses
- 7.8 Ningbo Ruiyi Sealing Materials
 - 7.8.1 Ningbo Ruiyi Sealing Materials Details
 - 7.8.2 Ningbo Ruiyi Sealing Materials Major Business
 - 7.8.3 Ningbo Ruiyi Sealing Materials Nuclear Grade Graphite Gasket Product and Services
 - 7.8.4 Ningbo Ruiyi Sealing Materials Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 7.8.5 Ningbo Ruiyi Sealing Materials Recent Developments/Updates
- 7.8.6 Ningbo Ruiyi Sealing Materials Competitive Strengths & Weaknesses
- 7.9 Suzhou Baojun Sealing Technology
 - 7.9.1 Suzhou Baojun Sealing Technology Details
 - 7.9.2 Suzhou Baojun Sealing Technology Major Business
 - 7.9.3 Suzhou Baojun Sealing Technology Nuclear Grade Graphite Gasket Product and Services
 - 7.9.4 Suzhou Baojun Sealing Technology Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.9.5 Suzhou Baojun Sealing Technology Recent Developments/Updates
 - 7.9.6 Suzhou Baojun Sealing Technology Competitive Strengths & Weaknesses
- 7.10 Zhejiang Guotai Xiaoxing Sealing Materials
 - 7.10.1 Zhejiang Guotai Xiaoxing Sealing Materials Details
 - 7.10.2 Zhejiang Guotai Xiaoxing Sealing Materials Major Business
 - 7.10.3 Zhejiang Guotai Xiaoxing Sealing Materials Nuclear Grade Graphite Gasket Product and Services
 - 7.10.4 Zhejiang Guotai Xiaoxing Sealing Materials Nuclear Grade Graphite Gasket Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.10.5 Zhejiang Guotai Xiaoxing Sealing Materials Recent Developments/Updates
 - 7.10.6 Zhejiang Guotai Xiaoxing Sealing Materials Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Nuclear Grade Graphite Gasket Industry Chain
- 8.2 Nuclear Grade Graphite Gasket Upstream Analysis
 - 8.2.1 Nuclear Grade Graphite Gasket Core Raw Materials
 - 8.2.2 Main Manufacturers of Nuclear Grade Graphite Gasket Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Nuclear Grade Graphite Gasket Production Mode
- 8.6 Nuclear Grade Graphite Gasket Procurement Model
- 8.7 Nuclear Grade Graphite Gasket Industry Sales Model and Sales Channels
 - 8.7.1 Nuclear Grade Graphite Gasket Sales Model
 - 8.7.2 Nuclear Grade Graphite Gasket Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Nuclear Grade Graphite Gasket Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Nuclear Grade Graphite Gasket Production Value by Region (2021-2026) & (USD Million)

Table 3. World Nuclear Grade Graphite Gasket Production Value by Region (2027-2032) & (USD Million)

Table 4. World Nuclear Grade Graphite Gasket Production Value Market Share by Region (2021-2026)

Table 5. World Nuclear Grade Graphite Gasket Production Value Market Share by Region (2027-2032)

Table 6. World Nuclear Grade Graphite Gasket Production by Region (2021-2026) & (K Sqm)

Table 7. World Nuclear Grade Graphite Gasket Production by Region (2027-2032) & (K Sqm)

Table 8. World Nuclear Grade Graphite Gasket Production Market Share by Region (2021-2026)

Table 9. World Nuclear Grade Graphite Gasket Production Market Share by Region (2027-2032)

Table 10. World Nuclear Grade Graphite Gasket Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Nuclear Grade Graphite Gasket Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Nuclear Grade Graphite Gasket Major Market Trends

Table 13. World Nuclear Grade Graphite Gasket Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)

Table 14. World Nuclear Grade Graphite Gasket Consumption by Region (2021-2026) & (K Sqm)

Table 15. World Nuclear Grade Graphite Gasket Consumption Forecast by Region (2027-2032) & (K Sqm)

Table 16. World Nuclear Grade Graphite Gasket Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Nuclear Grade Graphite Gasket Producers in 2025

Table 18. World Nuclear Grade Graphite Gasket Production by Manufacturer (2021-2026) & (K Sqm)

Table 19. Production Market Share of Key Nuclear Grade Graphite Gasket Producers in 2025

Table 20. World Nuclear Grade Graphite Gasket Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Nuclear Grade Graphite Gasket Company Evaluation Quadrant

Table 22. World Nuclear Grade Graphite Gasket Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Nuclear Grade Graphite Gasket Production Site of Key Manufacturer

Table 24. Nuclear Grade Graphite Gasket Market: Company Product Type Footprint

Table 25. Nuclear Grade Graphite Gasket Market: Company Product Application Footprint

Table 26. Nuclear Grade Graphite Gasket Competitive Factors

Table 27. Nuclear Grade Graphite Gasket New Entrant and Capacity Expansion Plans

Table 28. Nuclear Grade Graphite Gasket Mergers & Acquisitions Activity

Table 29. United States VS China Nuclear Grade Graphite Gasket Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Nuclear Grade Graphite Gasket Production Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 31. United States VS China Nuclear Grade Graphite Gasket Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 32. United States Based Nuclear Grade Graphite Gasket Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Nuclear Grade Graphite Gasket Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Nuclear Grade Graphite Gasket Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Nuclear Grade Graphite Gasket Production (2021-2026) & (K Sqm)

Table 36. United States Based Manufacturers Nuclear Grade Graphite Gasket Production Market Share (2021-2026)

Table 37. China Based Nuclear Grade Graphite Gasket Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Nuclear Grade Graphite Gasket Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Nuclear Grade Graphite Gasket Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Nuclear Grade Graphite Gasket Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers Nuclear Grade Graphite Gasket Production Market Share (2021-2026)

Table 42. Rest of World Based Nuclear Grade Graphite Gasket Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production, (2021-2026) & (K Sqm)

Table 46. Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production Market Share (2021-2026)

Table 47. World Nuclear Grade Graphite Gasket Production Value by Thickness, (USD Million), 2021 & 2025 & 2032

Table 48. World Nuclear Grade Graphite Gasket Production by Thickness (2021-2026) & (K Sqm)

Table 49. World Nuclear Grade Graphite Gasket Production by Thickness (2027-2032) & (K Sqm)

Table 50. World Nuclear Grade Graphite Gasket Production Value by Thickness (2021-2026) & (USD Million)

Table 51. World Nuclear Grade Graphite Gasket Production Value by Thickness (2027-2032) & (USD Million)

Table 52. World Nuclear Grade Graphite Gasket Average Price by Thickness (2021-2026) & (US\$/Sq m)

Table 53. World Nuclear Grade Graphite Gasket Average Price by Thickness (2027-2032) & (US\$/Sq m)

Table 54. World Nuclear Grade Graphite Gasket Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Nuclear Grade Graphite Gasket Production by Application (2021-2026) & (K Sqm)

Table 56. World Nuclear Grade Graphite Gasket Production by Application (2027-2032) & (K Sqm)

Table 57. World Nuclear Grade Graphite Gasket Production Value by Application (2021-2026) & (USD Million)

Table 58. World Nuclear Grade Graphite Gasket Production Value by Application (2027-2032) & (USD Million)

Table 59. World Nuclear Grade Graphite Gasket Average Price by Application (2021-2026) & (US\$/Sq m)

Table 60. World Nuclear Grade Graphite Gasket Average Price by Application

(2027-2032) & (US\$/Sq m)

Table 61. SUNWELL SEALS Basic Information, Manufacturing Base and Competitors

Table 62. SUNWELL SEALS Major Business

Table 63. SUNWELL SEALS Nuclear Grade Graphite Gasket Product and Services

Table 64. SUNWELL SEALS Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. SUNWELL SEALS Recent Developments/Updates

Table 66. SUNWELL SEALS Competitive Strengths & Weaknesses

Table 67. Garlock Basic Information, Manufacturing Base and Competitors

Table 68. Garlock Major Business

Table 69. Garlock Nuclear Grade Graphite Gasket Product and Services

Table 70. Garlock Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Garlock Recent Developments/Updates

Table 72. Garlock Competitive Strengths & Weaknesses

Table 73. James Walker Group Basic Information, Manufacturing Base and Competitors

Table 74. James Walker Group Major Business

Table 75. James Walker Group Nuclear Grade Graphite Gasket Product and Services

Table 76. James Walker Group Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. James Walker Group Recent Developments/Updates

Table 78. James Walker Group Competitive Strengths & Weaknesses

Table 79. Mersen Basic Information, Manufacturing Base and Competitors

Table 80. Mersen Major Business

Table 81. Mersen Nuclear Grade Graphite Gasket Product and Services

Table 82. Mersen Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Mersen Recent Developments/Updates

Table 84. Mersen Competitive Strengths & Weaknesses

Table 85. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 86. SGL Carbon Major Business

Table 87. SGL Carbon Nuclear Grade Graphite Gasket Product and Services

Table 88. SGL Carbon Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. SGL Carbon Recent Developments/Updates

Table 90. SGL Carbon Competitive Strengths & Weaknesses

Table 91. Binzhou Double Peaks Graphite Sealing Materials Basic Information, Manufacturing Base and Competitors

Table 92. Binzhou Double Peaks Graphite Sealing Materials Major Business

Table 93. Binzhou Double Peaks Graphite Sealing Materials Nuclear Grade Graphite Gasket Product and Services

Table 94. Binzhou Double Peaks Graphite Sealing Materials Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Binzhou Double Peaks Graphite Sealing Materials Recent Developments/Updates

Table 96. Binzhou Double Peaks Graphite Sealing Materials Competitive Strengths & Weaknesses

Table 97. CiXi Feite Sealing Material Basic Information, Manufacturing Base and Competitors

Table 98. CiXi Feite Sealing Material Major Business

Table 99. CiXi Feite Sealing Material Nuclear Grade Graphite Gasket Product and Services

Table 100. CiXi Feite Sealing Material Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. CiXi Feite Sealing Material Recent Developments/Updates

Table 102. CiXi Feite Sealing Material Competitive Strengths & Weaknesses

Table 103. Ningbo Ruiyi Sealing Materials Basic Information, Manufacturing Base and Competitors

Table 104. Ningbo Ruiyi Sealing Materials Major Business

Table 105. Ningbo Ruiyi Sealing Materials Nuclear Grade Graphite Gasket Product and Services

Table 106. Ningbo Ruiyi Sealing Materials Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 107. Ningbo Ruiyi Sealing Materials Recent Developments/Updates

Table 108. Ningbo Ruiyi Sealing Materials Competitive Strengths & Weaknesses

Table 109. Suzhou Baojun Sealing Technology Basic Information, Manufacturing Base and Competitors

Table 110. Suzhou Baojun Sealing Technology Major Business

Table 111. Suzhou Baojun Sealing Technology Nuclear Grade Graphite Gasket Product and Services

Table 112. Suzhou Baojun Sealing Technology Nuclear Grade Graphite Gasket Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 113. Suzhou Baojun Sealing Technology Recent Developments/Updates

Table 114. Suzhou Baojun Sealing Technology Competitive Strengths & Weaknesses

Table 115. Zhejiang Guotai Xiaoxing Sealing Materials Basic Information,
Manufacturing Base and Competitors

Table 116. Zhejiang Guotai Xiaoxing Sealing Materials Major Business

Table 117. Zhejiang Guotai Xiaoxing Sealing Materials Nuclear Grade Graphite Gasket
Product and Services

Table 118. Zhejiang Guotai Xiaoxing Sealing Materials Nuclear Grade Graphite Gasket
Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin
and Market Share (2021-2026)

Table 119. Zhejiang Guotai Xiaoxing Sealing Materials Recent Developments/Updates

Table 120. Zhejiang Guotai Xiaoxing Sealing Materials Competitive Strengths &
Weaknesses

Table 121. Global Key Players of Nuclear Grade Graphite Gasket Upstream (Raw
Materials)

Table 122. Global Nuclear Grade Graphite Gasket Typical Customers

Table 123. Nuclear Grade Graphite Gasket Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Nuclear Grade Graphite Gasket Picture

Figure 2. World Nuclear Grade Graphite Gasket Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Nuclear Grade Graphite Gasket Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Nuclear Grade Graphite Gasket Production (2021-2032) & (K Sqm)

Figure 5. World Nuclear Grade Graphite Gasket Average Price (2021-2032) & (US\$/Sq m)

Figure 6. World Nuclear Grade Graphite Gasket Production Value Market Share by Region (2021-2032)

Figure 7. World Nuclear Grade Graphite Gasket Production Market Share by Region (2021-2032)

Figure 8. North America Nuclear Grade Graphite Gasket Production (2021-2032) & (K Sqm)

Figure 9. Europe Nuclear Grade Graphite Gasket Production (2021-2032) & (K Sqm)

Figure 10. China Nuclear Grade Graphite Gasket Production (2021-2032) & (K Sqm)

Figure 11. Nuclear Grade Graphite Gasket Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 14. World Nuclear Grade Graphite Gasket Consumption Market Share by Region (2021-2032)

Figure 15. United States Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 16. China Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 17. Europe Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 18. Japan Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 19. South Korea Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 20. ASEAN Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 21. India Nuclear Grade Graphite Gasket Consumption (2021-2032) & (K Sqm)

Figure 22. Producer Shipments of Nuclear Grade Graphite Gasket by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Nuclear Grade Graphite

Gasket Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Nuclear Grade Graphite Gasket Markets in 2025

Figure 25. United States VS China: Nuclear Grade Graphite Gasket Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Nuclear Grade Graphite Gasket Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Nuclear Grade Graphite Gasket Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Nuclear Grade Graphite Gasket Production Market Share 2025

Figure 29. China Based Manufacturers Nuclear Grade Graphite Gasket Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Nuclear Grade Graphite Gasket Production Market Share 2025

Figure 31. World Nuclear Grade Graphite Gasket Production Value by Thickness, (USD Million), 2021 & 2025 & 2032

Figure 32. World Nuclear Grade Graphite Gasket Production Value Market Share by Thickness in 2025

Figure 33. 0.98

Figure 34. 0.99

Figure 35. World Nuclear Grade Graphite Gasket Production Market Share by Thickness (2021-2032)

Figure 36. World Nuclear Grade Graphite Gasket Production Value Market Share by Thickness (2021-2032)

Figure 37. World Nuclear Grade Graphite Gasket Average Price by Thickness (2021-2032) & (US\$/Sq m)

Figure 38. 0.5 mm

Figure 39. 1.0 mm

Figure 40. 1.5 mm

Figure 41. Others

Figure 42. World Nuclear Grade Graphite Gasket Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 43. World Nuclear Grade Graphite Gasket Production Value Market Share by Application in 2025

Figure 44. Nuclear Industrial

Figure 45. Scientific Research

Figure 46. World Nuclear Grade Graphite Gasket Production Market Share by Application (2021-2032)

Figure 47. World Nuclear Grade Graphite Gasket Production Value Market Share by Application (2021-2032)

Figure 48. World Nuclear Grade Graphite Gasket Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 49. Nuclear Grade Graphite Gasket Industry Chain

Figure 50. Nuclear Grade Graphite Gasket Procurement Model

Figure 51. Nuclear Grade Graphite Gasket Sales Model

Figure 52. Nuclear Grade Graphite Gasket Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

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