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Global Self-Bonding Composite Powder Market Growth 2026-2032

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Abstracts

The global Self-Bonding Composite Powder market size is predicted to grow from US$ 47.31 million in 2025 to US$ 65.40 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

Self-bonding composite powder is a thermal spray material composed primarily of high-melting-point metals and reactive metals (such as nickel-clad aluminum, or Ni-Al). During the heating process of thermal spraying, the material undergoes a vigorous exothermic reaction, enabling it to adhere firmly to substrate surfaces without the need for special roughening treatments; it is widely used as a bond coat to enhance the adhesion of subsequent coating layers.

Upstream raw materials primarily consist of metal powders—such as nickel, aluminum, chromium, molybdenum, iron, and cobalt—along with minor amounts of silicon, boron, rare earth elements, or oxide modifiers. Nickel powder determines the powder's corrosion resistance, toughness, and compatibility with the substrate; aluminum powder facilitates the exothermic reaction and enhances bonding; and elements such as chromium and molybdenum improve oxidation resistance, corrosion resistance, and high-temperature stability. Downstream applications primarily serve thermal spray service providers, surface restoration companies, equipment manufacturers, and the end-user maintenance market, where the material is used to create a bonding layer between the metal substrate and functional coatings or to form wear- and corrosion-resistant coatings directly.

In 2025, the global sales volume of self-bonding composite powders is approximately 620 metric tons, with an average selling price of around $78/kg and a gross profit margin of approximately 32%–45%.

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United States market for Self-Bonding Composite Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Self-Bonding Composite Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Self-Bonding Composite Powder is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Self-Bonding Composite Powder players cover Oerlikon Metco, H?gan?s, Linde Advanced Material Technologies, Castolin Eutectic, Powder Alloy Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Self-Bonding Composite Powder Industry Forecast” looks at past sales and reviews total world Self-Bonding Composite Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Self-Bonding Composite Powder sales for 2026 through 2032. With Self-Bonding Composite Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Self-Bonding Composite Powder industry.

This Insight Report provides a comprehensive analysis of the global Self-Bonding Composite Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Self-Bonding Composite Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Self-Bonding Composite Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Self-Bonding Composite Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Self-Bonding Composite Powder.

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This report presents a comprehensive overview, market shares, and growth opportunities of Self-Bonding Composite Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Nickel-based

Steel-based

Steel-based

Segmentation by Powder Structure:

Coated Type

Composite Agglomerated Type

Mechanically Alloyed Type

Other

Segmentation by Application:

Machinery

Aerospace

Automotive

Metallurgy

Energy and Power

Other

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy

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Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Oerlikon Metco

H?gan?s

Linde Advanced Material Technologies

Castolin Eutectic

Powder Alloy Corporation

Wall Colmonoy

BGRIMM Advanced Materials Science & Technology

Hunan Jiorie Thermal Spray Materials

Key Questions Addressed in this Report

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What is the 10-year outlook for the global Self-Bonding Composite Powder market?

What factors are driving Self-Bonding Composite Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Self-Bonding Composite Powder market opportunities vary by end market size?

How does Self-Bonding Composite Powder break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Self-Bonding Composite Powder Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Self-Bonding Composite Powder by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Self-Bonding Composite Powder by Country/Region, 2021, 2025 & 2032
2.2 Self-Bonding Composite Powder Segment by Type
  2.2.1 Nickel-based
  2.2.2 Steel-based
  2.2.3 Steel-based
  2.2.4 Self-Bonding Composite Powder Sales by Type
    2.2.4.1 Global Self-Bonding Composite Powder Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Self-Bonding Composite Powder Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Self-Bonding Composite Powder Sale Price by Type (2021-2026)
2.3 Self-Bonding Composite Powder Segment by Powder Structure
  2.3.1 Coated Type
  2.3.2 Composite Agglomerated Type
  2.3.3 Mechanically Alloyed Type
  2.3.4 Other
  2.3.5 Self-Bonding Composite Powder Sales by Powder Structure
    2.3.5.1 Global Self-Bonding Composite Powder Sales Market Share by Powder Structure (2021-2026)

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2.3.5.2 Global Self-Bonding Composite Powder Revenue and Market Share by Powder Structure (2021-2026)
2.3.5.3 Global Self-Bonding Composite Powder Sale Price by Powder Structure (2021-2026)
2.4 Self-Bonding Composite Powder Segment by Application
2.4.1 Machinery
2.4.2 Aerospace
2.4.3 Automotive
2.4.4 Metallurgy
2.4.5 Energy and Power
2.4.6 Other
2.4.7 Self-Bonding Composite Powder Sales by Application
2.4.7.1 Global Self-Bonding Composite Powder Sale Market Share by Application (2021-2026)
2.4.7.2 Global Self-Bonding Composite Powder Revenue and Market Share by Application (2021-2026)
2.4.7.3 Global Self-Bonding Composite Powder Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Self-Bonding Composite Powder Breakdown Data by Company
3.1.1 Global Self-Bonding Composite Powder Annual Sales by Company (2021-2026)
3.1.2 Global Self-Bonding Composite Powder Sales Market Share by Company (2021-2026)
3.2 Global Self-Bonding Composite Powder Annual Revenue by Company (2021-2026)
3.2.1 Global Self-Bonding Composite Powder Revenue by Company (2021-2026)
3.2.2 Global Self-Bonding Composite Powder Revenue Market Share by Company (2021-2026)
3.3 Global Self-Bonding Composite Powder Sale Price by Company
3.4 Key Manufacturers Self-Bonding Composite Powder Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Self-Bonding Composite Powder Product Location Distribution
3.4.2 Players Self-Bonding Composite Powder Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants

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info@marketpublishers.com

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SELF-BONDING COMPOSITE POWDER BY GEOGRAPHIC REGION

4.1 World Historic Self-Bonding Composite Powder Market Size by Geographic Region (2021-2026)
  4.1.1 Global Self-Bonding Composite Powder Annual Sales by Geographic Region (2021-2026)
  4.1.2 Global Self-Bonding Composite Powder Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Self-Bonding Composite Powder Market Size by Country/Region (2021-2026)
  4.2.1 Global Self-Bonding Composite Powder Annual Sales by Country/Region (2021-2026)
  4.2.2 Global Self-Bonding Composite Powder Annual Revenue by Country/Region (2021-2026)
4.3 Americas Self-Bonding Composite Powder Sales Growth
4.4 APAC Self-Bonding Composite Powder Sales Growth
4.5 Europe Self-Bonding Composite Powder Sales Growth
4.6 Middle East & Africa Self-Bonding Composite Powder Sales Growth

5 AMERICAS

5.1 Americas Self-Bonding Composite Powder Sales by Country
  5.1.1 Americas Self-Bonding Composite Powder Sales by Country (2021-2026)
  5.1.2 Americas Self-Bonding Composite Powder Revenue by Country (2021-2026)
5.2 Americas Self-Bonding Composite Powder Sales by Type (2021-2026)
5.3 Americas Self-Bonding Composite Powder Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Self-Bonding Composite Powder Sales by Region
  6.1.1 APAC Self-Bonding Composite Powder Sales by Region (2021-2026)
  6.1.2 APAC Self-Bonding Composite Powder Revenue by Region (2021-2026)

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6.2 APAC Self-Bonding Composite Powder Sales by Type (2021-2026)
6.3 APAC Self-Bonding Composite Powder Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Self-Bonding Composite Powder by Country
  7.1.1 Europe Self-Bonding Composite Powder Sales by Country (2021-2026)
  7.1.2 Europe Self-Bonding Composite Powder Revenue by Country (2021-2026)
7.2 Europe Self-Bonding Composite Powder Sales by Type (2021-2026)
7.3 Europe Self-Bonding Composite Powder Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Self-Bonding Composite Powder by Country
  8.1.1 Middle East & Africa Self-Bonding Composite Powder Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Self-Bonding Composite Powder Revenue by Country (2021-2026)
8.2 Middle East & Africa Self-Bonding Composite Powder Sales by Type (2021-2026)
8.3 Middle East & Africa Self-Bonding Composite Powder Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

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info@marketpublishers.com

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Self-Bonding Composite Powder
10.3 Manufacturing Process Analysis of Self-Bonding Composite Powder
10.4 Industry Chain Structure of Self-Bonding Composite Powder

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Self-Bonding Composite Powder Distributors
11.3 Self-Bonding Composite Powder Customer

12 WORLD FORECAST REVIEW FOR SELF-BONDING COMPOSITE POWDER BY GEOGRAPHIC REGION

12.1 Global Self-Bonding Composite Powder Market Size Forecast by Region
  12.1.1 Global Self-Bonding Composite Powder Forecast by Region (2027-2032)
  12.1.2 Global Self-Bonding Composite Powder Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Self-Bonding Composite Powder Forecast by Type (2027-2032)
12.7 Global Self-Bonding Composite Powder Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Oerlikon Metco
  13.1.1 Oerlikon Metco Company Information

+357 96 030922
info@marketpublishers.com

13.1.2 Oerlikon Metco Self-Bonding Composite Powder Product Portfolios and Specifications
13.1.3 Oerlikon Metco Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Oerlikon Metco Main Business Overview
13.1.5 Oerlikon Metco Latest Developments
13.2 H?gan?s
13.2.1 H?gan?s Company Information
13.2.2 H?gan?s Self-Bonding Composite Powder Product Portfolios and Specifications
13.2.3 H?gan?s Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 H?gan?s Main Business Overview
13.2.5 H?gan?s Latest Developments
13.3 Linde Advanced Material Technologies
13.3.1 Linde Advanced Material Technologies Company Information
13.3.2 Linde Advanced Material Technologies Self-Bonding Composite Powder Product Portfolios and Specifications
13.3.3 Linde Advanced Material Technologies Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Linde Advanced Material Technologies Main Business Overview
13.3.5 Linde Advanced Material Technologies Latest Developments
13.4 Castolin Eutectic
13.4.1 Castolin Eutectic Company Information
13.4.2 Castolin Eutectic Self-Bonding Composite Powder Product Portfolios and Specifications
13.4.3 Castolin Eutectic Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Castolin Eutectic Main Business Overview
13.4.5 Castolin Eutectic Latest Developments
13.5 Powder Alloy Corporation
13.5.1 Powder Alloy Corporation Company Information
13.5.2 Powder Alloy Corporation Self-Bonding Composite Powder Product Portfolios and Specifications
13.5.3 Powder Alloy Corporation Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Powder Alloy Corporation Main Business Overview
13.5.5 Powder Alloy Corporation Latest Developments
13.6 Wall Colmonoy
13.6.1 Wall Colmonoy Company Information

+357 96 030922
info@marketpublishers.com

13.6.2 Wall Colmonoy Self-Bonding Composite Powder Product Portfolios and Specifications
13.6.3 Wall Colmonoy Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Wall Colmonoy Main Business Overview
13.6.5 Wall Colmonoy Latest Developments
13.7 BGRIMM Advanced Materials Science & Technology
13.7.1 BGRIMM Advanced Materials Science & Technology Company Information
13.7.2 BGRIMM Advanced Materials Science & Technology Self-Bonding Composite Powder Product Portfolios and Specifications
13.7.3 BGRIMM Advanced Materials Science & Technology Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 BGRIMM Advanced Materials Science & Technology Main Business Overview
13.7.5 BGRIMM Advanced Materials Science & Technology Latest Developments
13.8 Hunan Jiorie Thermal Spray Materials
13.8.1 Hunan Jiorie Thermal Spray Materials Company Information
13.8.2 Hunan Jiorie Thermal Spray Materials Self-Bonding Composite Powder Product Portfolios and Specifications
13.8.3 Hunan Jiorie Thermal Spray Materials Self-Bonding Composite Powder Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Hunan Jiorie Thermal Spray Materials Main Business Overview
13.8.5 Hunan Jiorie Thermal Spray Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Self-Bonding Composite Powder Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Self-Bonding Composite Powder Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Nickel-based
Table 4. Major Players of Steel-based
Table 5. Major Players of Steel-based
Table 6. Global Self-Bonding Composite Powder Sales by Type (2021-2026) & (Tons)
Table 7. Global Self-Bonding Composite Powder Sales Market Share by Type (2021-2026)
Table 8. Global Self-Bonding Composite Powder Revenue by Type (2021-2026) & ($ million)
Table 9. Global Self-Bonding Composite Powder Revenue Market Share by Type (2021-2026)
Table 10. Global Self-Bonding Composite Powder Sale Price by Type (2021-2026) & (US$/kg)
Table 11. Major Players of Coated Type
Table 12. Major Players of Composite Agglomerated Type
Table 13. Major Players of Mechanically Alloyed Type
Table 14. Major Players of Other
Table 15. Global Self-Bonding Composite Powder Sales by Powder Structure (2021-2026) & (Tons)
Table 16. Global Self-Bonding Composite Powder Sales Market Share by Powder Structure (2021-2026)
Table 17. Global Self-Bonding Composite Powder Revenue by Powder Structure (2021-2026) & ($ million)
Table 18. Global Self-Bonding Composite Powder Revenue Market Share by Powder Structure (2021-2026)
Table 19. Global Self-Bonding Composite Powder Sale Price by Powder Structure (2021-2026) & (US$/kg)
Table 20. Global Self-Bonding Composite Powder Sale by Application (2021-2026) & (Tons)
Table 21. Global Self-Bonding Composite Powder Sale Market Share by Application (2021-2026)
Table 22. Global Self-Bonding Composite Powder Revenue by Application (2021-2026)

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& ($ million)
Table 23. Global Self-Bonding Composite Powder Revenue Market Share by Application (2021-2026)
Table 24. Global Self-Bonding Composite Powder Sale Price by Application (2021-2026) & (US$/kg)
Table 25. Global Self-Bonding Composite Powder Sales by Company (2021-2026) & (Tons)
Table 26. Global Self-Bonding Composite Powder Sales Market Share by Company (2021-2026)
Table 27. Global Self-Bonding Composite Powder Revenue by Company (2021-2026) & ($ millions)
Table 28. Global Self-Bonding Composite Powder Revenue Market Share by Company (2021-2026)
Table 29. Global Self-Bonding Composite Powder Sale Price by Company (2021-2026) & (US$/kg)
Table 30. Key Manufacturers Self-Bonding Composite Powder Producing Area Distribution and Sales Area
Table 31. Players Self-Bonding Composite Powder Products Offered
Table 32. Self-Bonding Composite Powder Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 33. New Products and Potential Entrants
Table 34. Market M&A Activity & Strategy
Table 35. Global Self-Bonding Composite Powder Sales by Geographic Region (2021-2026) & (Tons)
Table 36. Global Self-Bonding Composite Powder Sales Market Share Geographic Region (2021-2026)
Table 37. Global Self-Bonding Composite Powder Revenue by Geographic Region (2021-2026) & ($ millions)
Table 38. Global Self-Bonding Composite Powder Revenue Market Share by Geographic Region (2021-2026)
Table 39. Global Self-Bonding Composite Powder Sales by Country/Region (2021-2026) & (Tons)
Table 40. Global Self-Bonding Composite Powder Sales Market Share by Country/Region (2021-2026)
Table 41. Global Self-Bonding Composite Powder Revenue by Country/Region (2021-2026) & ($ millions)
Table 42. Global Self-Bonding Composite Powder Revenue Market Share by Country/Region (2021-2026)
Table 43. Americas Self-Bonding Composite Powder Sales by Country (2021-2026) &

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(Tons)
Table 44. Americas Self-Bonding Composite Powder Sales Market Share by Country (2021-2026)
Table 45. Americas Self-Bonding Composite Powder Revenue by Country (2021-2026) & ($ millions)
Table 46. Americas Self-Bonding Composite Powder Sales by Type (2021-2026) & (Tons)
Table 47. Americas Self-Bonding Composite Powder Sales by Application (2021-2026) & (Tons)
Table 48. APAC Self-Bonding Composite Powder Sales by Region (2021-2026) & (Tons)
Table 49. APAC Self-Bonding Composite Powder Sales Market Share by Region (2021-2026)
Table 50. APAC Self-Bonding Composite Powder Revenue by Region (2021-2026) & ($ millions)
Table 51. APAC Self-Bonding Composite Powder Sales by Type (2021-2026) & (Tons)
Table 52. APAC Self-Bonding Composite Powder Sales by Application (2021-2026) & (Tons)
Table 53. Europe Self-Bonding Composite Powder Sales by Country (2021-2026) & (Tons)
Table 54. Europe Self-Bonding Composite Powder Revenue by Country (2021-2026) & ($ millions)
Table 55. Europe Self-Bonding Composite Powder Sales by Type (2021-2026) & (Tons)
Table 56. Europe Self-Bonding Composite Powder Sales by Application (2021-2026) & (Tons)
Table 57. Middle East & Africa Self-Bonding Composite Powder Sales by Country (2021-2026) & (Tons)
Table 58. Middle East & Africa Self-Bonding Composite Powder Revenue Market Share by Country (2021-2026)
Table 59. Middle East & Africa Self-Bonding Composite Powder Sales by Type (2021-2026) & (Tons)
Table 60. Middle East & Africa Self-Bonding Composite Powder Sales by Application (2021-2026) & (Tons)
Table 61. Key Market Drivers & Growth Opportunities of Self-Bonding Composite Powder
Table 62. Key Market Challenges & Risks of Self-Bonding Composite Powder
Table 63. Key Industry Trends of Self-Bonding Composite Powder
Table 64. Self-Bonding Composite Powder Raw Material
Table 65. Key Suppliers of Raw Materials

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info@marketpublishers.com

Table 66. Self-Bonding Composite Powder Distributors List
Table 67. Self-Bonding Composite Powder Customer List
Table 68. Global Self-Bonding Composite Powder Sales Forecast by Region (2027-2032) & (Tons)
Table 69. Global Self-Bonding Composite Powder Revenue Forecast by Region (2027-2032) & ($ millions)
Table 70. Americas Self-Bonding Composite Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 71. Americas Self-Bonding Composite Powder Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 72. APAC Self-Bonding Composite Powder Sales Forecast by Region (2027-2032) & (Tons)
Table 73. APAC Self-Bonding Composite Powder Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 74. Europe Self-Bonding Composite Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 75. Europe Self-Bonding Composite Powder Revenue Forecast by Country (2027-2032) & ($ millions)
Table 76. Middle East & Africa Self-Bonding Composite Powder Sales Forecast by Country (2027-2032) & (Tons)
Table 77. Middle East & Africa Self-Bonding Composite Powder Revenue Forecast by Country (2027-2032) & ($ millions)
Table 78. Global Self-Bonding Composite Powder Sales Forecast by Type (2027-2032) & (Tons)
Table 79. Global Self-Bonding Composite Powder Revenue Forecast by Type (2027-2032) & ($ millions)
Table 80. Global Self-Bonding Composite Powder Sales Forecast by Application (2027-2032) & (Tons)
Table 81. Global Self-Bonding Composite Powder Revenue Forecast by Application (2027-2032) & ($ millions)
Table 82. Oerlikon Metco Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 83. Oerlikon Metco Self-Bonding Composite Powder Product Portfolios and Specifications
Table 84. Oerlikon Metco Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 85. Oerlikon Metco Main Business
Table 86. Oerlikon Metco Latest Developments
Table 87. H?gan?s Basic Information, Self-Bonding Composite Powder Manufacturing

+357 96 030922
info@marketpublishers.com

Base, Sales Area and Its Competitors
Table 88. H?gan?s Self-Bonding Composite Powder Product Portfolios and Specifications
Table 89. H?gan?s Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 90. H?gan?s Main Business
Table 91. H?gan?s Latest Developments
Table 92. Linde Advanced Material Technologies Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 93. Linde Advanced Material Technologies Self-Bonding Composite Powder Product Portfolios and Specifications
Table 94. Linde Advanced Material Technologies Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 95. Linde Advanced Material Technologies Main Business
Table 96. Linde Advanced Material Technologies Latest Developments
Table 97. Castolin Eutectic Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 98. Castolin Eutectic Self-Bonding Composite Powder Product Portfolios and Specifications
Table 99. Castolin Eutectic Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 100. Castolin Eutectic Main Business
Table 101. Castolin Eutectic Latest Developments
Table 102. Powder Alloy Corporation Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 103. Powder Alloy Corporation Self-Bonding Composite Powder Product Portfolios and Specifications
Table 104. Powder Alloy Corporation Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 105. Powder Alloy Corporation Main Business
Table 106. Powder Alloy Corporation Latest Developments
Table 107. Wall Colmonoy Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 108. Wall Colmonoy Self-Bonding Composite Powder Product Portfolios and Specifications
Table 109. Wall Colmonoy Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 110. Wall Colmonoy Main Business
Table 111. Wall Colmonoy Latest Developments

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Table 112. BGRIMM Advanced Materials Science & Technology Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 113. BGRIMM Advanced Materials Science & Technology Self-Bonding Composite Powder Product Portfolios and Specifications
Table 114. BGRIMM Advanced Materials Science & Technology Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 115. BGRIMM Advanced Materials Science & Technology Main Business
Table 116. BGRIMM Advanced Materials Science & Technology Latest Developments
Table 117. Hunan Jiorie Thermal Spray Materials Basic Information, Self-Bonding Composite Powder Manufacturing Base, Sales Area and Its Competitors
Table 118. Hunan Jiorie Thermal Spray Materials Self-Bonding Composite Powder Product Portfolios and Specifications
Table 119. Hunan Jiorie Thermal Spray Materials Self-Bonding Composite Powder Sales (Tons), Revenue ($ Million), Price (US$/kg) and Gross Margin (2021-2026)
Table 120. Hunan Jiorie Thermal Spray Materials Main Business
Table 121. Hunan Jiorie Thermal Spray Materials Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Self-Bonding Composite Powder
Figure 2. Self-Bonding Composite Powder Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Self-Bonding Composite Powder Sales Growth Rate 2021-2032 (Tons)
Figure 7. Global Self-Bonding Composite Powder Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Self-Bonding Composite Powder Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Self-Bonding Composite Powder Sales Market Share by Country/Region (2025)
Figure 10. Self-Bonding Composite Powder Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Nickel-based
Figure 12. Product Picture of Steel-based
Figure 13. Product Picture of Steel-based
Figure 14. Global Self-Bonding Composite Powder Sales Market Share by Type in 2026
Figure 15. Global Self-Bonding Composite Powder Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Coated Type
Figure 17. Product Picture of Composite Agglomerated Type
Figure 18. Product Picture of Mechanically Alloyed Type
Figure 19. Product Picture of Other
Figure 20. Global Self-Bonding Composite Powder Sales Market Share by Powder Structure in 2026
Figure 21. Global Self-Bonding Composite Powder Revenue Market Share by Powder Structure (2021-2026)
Figure 22. Self-Bonding Composite Powder Consumed in Machinery
Figure 23. Global Self-Bonding Composite Powder Market: Machinery (2021-2026) & (Tons)
Figure 24. Self-Bonding Composite Powder Consumed in Aerospace
Figure 25. Global Self-Bonding Composite Powder Market: Aerospace (2021-2026) & (Tons)
Figure 26. Self-Bonding Composite Powder Consumed in Automotive

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Figure 27. Global Self-Bonding Composite Powder Market: Automotive (2021-2026) & (Tons)
Figure 28. Self-Bonding Composite Powder Consumed in Metallurgy
Figure 29. Global Self-Bonding Composite Powder Market: Metallurgy (2021-2026) & (Tons)
Figure 30. Self-Bonding Composite Powder Consumed in Energy and Power
Figure 31. Global Self-Bonding Composite Powder Market: Energy and Power (2021-2026) & (Tons)
Figure 32. Self-Bonding Composite Powder Consumed in Other
Figure 33. Global Self-Bonding Composite Powder Market: Other (2021-2026) & (Tons)
Figure 34. Global Self-Bonding Composite Powder Sale Market Share by Application (2025)
Figure 35. Global Self-Bonding Composite Powder Revenue Market Share by Application in 2025
Figure 36. Self-Bonding Composite Powder Sales by Company in 2025 (Tons)
Figure 37. Global Self-Bonding Composite Powder Sales Market Share by Company in 2025
Figure 38. Self-Bonding Composite Powder Revenue by Company in 2025 ($ millions)
Figure 39. Global Self-Bonding Composite Powder Revenue Market Share by Company in 2025
Figure 40. Global Self-Bonding Composite Powder Sales Market Share by Geographic Region (2021-2026)
Figure 41. Global Self-Bonding Composite Powder Revenue Market Share by Geographic Region in 2025
Figure 42. Americas Self-Bonding Composite Powder Sales 2021-2026 (Tons)
Figure 43. Americas Self-Bonding Composite Powder Revenue 2021-2026 ($ millions)
Figure 44. APAC Self-Bonding Composite Powder Sales 2021-2026 (Tons)
Figure 45. APAC Self-Bonding Composite Powder Revenue 2021-2026 ($ millions)
Figure 46. Europe Self-Bonding Composite Powder Sales 2021-2026 (Tons)
Figure 47. Europe Self-Bonding Composite Powder Revenue 2021-2026 ($ millions)
Figure 48. Middle East & Africa Self-Bonding Composite Powder Sales 2021-2026 (Tons)
Figure 49. Middle East & Africa Self-Bonding Composite Powder Revenue 2021-2026 ($ millions)
Figure 50. Americas Self-Bonding Composite Powder Sales Market Share by Country in 2025
Figure 51. Americas Self-Bonding Composite Powder Revenue Market Share by Country (2021-2026)
Figure 52. Americas Self-Bonding Composite Powder Sales Market Share by Type

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(2021-2026)
Figure 53. Americas Self-Bonding Composite Powder Sales Market Share by Application (2021-2026)
Figure 54. United States Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 55. Canada Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 56. Mexico Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 57. Brazil Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 58. APAC Self-Bonding Composite Powder Sales Market Share by Region in 2025
Figure 59. APAC Self-Bonding Composite Powder Revenue Market Share by Region (2021-2026)
Figure 60. APAC Self-Bonding Composite Powder Sales Market Share by Type (2021-2026)
Figure 61. APAC Self-Bonding Composite Powder Sales Market Share by Application (2021-2026)
Figure 62. China Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 63. Japan Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 64. South Korea Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 65. Southeast Asia Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 66. India Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 67. Australia Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 68. China Taiwan Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 69. Europe Self-Bonding Composite Powder Sales Market Share by Country in 2025
Figure 70. Europe Self-Bonding Composite Powder Revenue Market Share by Country (2021-2026)
Figure 71. Europe Self-Bonding Composite Powder Sales Market Share by Type (2021-2026)

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Figure 72. Europe Self-Bonding Composite Powder Sales Market Share by Application (2021-2026)
Figure 73. Germany Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 74. France Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 75. UK Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 76. Italy Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 77. Russia Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 78. Middle East & Africa Self-Bonding Composite Powder Sales Market Share by Country (2021-2026)
Figure 79. Middle East & Africa Self-Bonding Composite Powder Sales Market Share by Type (2021-2026)
Figure 80. Middle East & Africa Self-Bonding Composite Powder Sales Market Share by Application (2021-2026)
Figure 81. Egypt Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 82. South Africa Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 83. Israel Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 84. Turkey Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 85. GCC Countries Self-Bonding Composite Powder Revenue Growth 2021-2026 ($ millions)
Figure 86. Manufacturing Cost Structure Analysis of Self-Bonding Composite Powder in 2026
Figure 87. Manufacturing Process Analysis of Self-Bonding Composite Powder
Figure 88. Industry Chain Structure of Self-Bonding Composite Powder
Figure 89. Channels of Distribution
Figure 90. Global Self-Bonding Composite Powder Sales Market Forecast by Region (2027-2032)
Figure 91. Global Self-Bonding Composite Powder Revenue Market Share Forecast by Region (2027-2032)
Figure 92. Global Self-Bonding Composite Powder Sales Market Share Forecast by Type (2027-2032)
Figure 93. Global Self-Bonding Composite Powder Revenue Market Share Forecast by

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Type (2027-2032)
Figure 94. Global Self-Bonding Composite Powder Sales Market Share Forecast by Application (2027-2032)
Figure 95. Global Self-Bonding Composite Powder Revenue Market Share Forecast by Application (2027-2032)

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