

Global Release Agent for Green Sand Molds Market Growth 2026-2032

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Abstracts

The global Release Agent for Green Sand Molds market size is predicted to grow from US\$ 15.36 million in 2025 to US\$ 23.06 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

In 2025, the global sales volume of release agents for green sand molds reached 3,500 tons, with an average selling price of \$4,500 per ton. Release agents for green sand molds are chemical substances specifically designed for the green sand casting process within the foundry industry; their primary function is to prevent adhesion between the casting and the sand mold. By forming a protective film on the surface of the mold, these release agents effectively prevent direct contact between the molten metal and the sand mold. This minimizes surface defects on the casting?such as burrs, cracks, and surface roughness?thereby improving both the yield rate and surface quality of the finished castings. Release agents for green sand molds are widely utilized in the casting of various metals, including cast iron, aluminum alloys, and steel; they hold particular significance and application value in the production of automotive components, machinery parts, and large-scale castings. The total global production capacity stands at approximately 4,500 tons, with the industry maintaining an average gross profit margin of around 30%. Upstream raw materials primarily consist of organic solvents, mineral powders, resins, and surfactants, with organic solvents and surfactants accounting for the largest share of production costs. Downstream demand is concentrated within the foundry industry?specifically in sectors such as automotive manufacturing, general machinery manufacturing, and heavy equipment manufacturing?with the automotive and general machinery sectors representing the largest segments of this demand. In terms of upstream material consumption, the demand for organic solvents and mineral powders is particularly concentrated. As casting processes become increasingly precise and environmental regulations grow

stricter, the development of release agents for green sand molds is trending toward non-toxic, eco-friendly, and low-emission formulations. Looking ahead, driven by advancements in casting technology and rising requirements for 'green casting' practices, market demand for eco-friendly release agents is expected to grow steadily, presenting companies within the industry with expanded opportunities for innovation and development.

The market outlook for Release Agent for Green Sand Molds remains consistently positive, driven primarily by the casting industry's ever-increasing demands for high precision, high efficiency, and environmental sustainability. As global demand for automotive, machinery, and heavy equipment manufacturing continues to rise, the application of wet sand mold casting within these sectors is steadily expanding; notably, the demand for wet sand mold release agents has surged significantly in the production of automotive components and high-precision castings. Furthermore, with environmental regulations becoming increasingly stringent, traditional release agents are facing growing pressure to be replaced, thereby driving a market transition toward eco-friendly, low-emission, and non-toxic products. Currently, product technology for wet sand mold release agents is undergoing continuous advancement—particularly through innovations aimed at enhancing release efficiency, minimizing environmental pollution, and reducing production costs—which has further bolstered the market's overall appeal.

Looking ahead, the development of Release Agent for Green Sand Molds is set to trend toward greater eco-friendliness and sustainability. As low-carbon manufacturing and green casting technologies continue to advance, environmentally friendly release agents are expected to capture a larger share of the market. Concurrently, as the casting industry evolves toward greater precision, efficiency, and automation, the technical requirements for release agents are becoming increasingly rigorous; this trend is compelling enterprises to boost their R&D investments in order to enhance both product performance and adaptability. In summary, the market for wet sand mold release agents stands to benefit significantly from the casting industry's ongoing modernization and the impetus provided by environmental policies; consequently, the market is projected to maintain steady growth over the coming years, attracting an increasing number of enterprises to enter this sector.

LP Information, Inc. (LPI) ' newest research report, the 'Release Agent for Green Sand Molds Industry Forecast' looks at past sales and reviews total world Release Agent for Green Sand Molds sales in 2025, providing a comprehensive analysis by region and market sector of projected Release Agent for Green Sand Molds sales for 2026 through

2032. With Release Agent for Green Sand Molds sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Release Agent for Green Sand Molds industry.

This Insight Report provides a comprehensive analysis of the global Release Agent for Green Sand Molds 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 Release Agent for Green Sand Molds portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Release Agent for Green Sand Molds market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Release Agent for Green Sand Molds 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 Release Agent for Green Sand Molds.

This report presents a comprehensive overview, market shares, and growth opportunities of Release Agent for Green Sand Molds market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Oil-based Release Agent

Water-based Release Agent

Segmentation by Function:

Rust-inhibiting Type

Cleaning Type

Segmentation by Spray Duration:

Spray Duration: 0.2?0.3 Seconds Per Spray

Spray Duration: 0.5?0.8 Seconds Per Spray

Segmentation by Application:

Automobile Manufacturing

Aerospace

Precision Manufacturing

Others

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

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.

Xinda Casting Technology

Carpenter Brothers, Inc.

ACMOS

Foseco

SHIFT CHEMICAL

TETRA

Tag Chemicals GmbH

SNJ Biotech PVT.LTD.

ZHONGKEHONGTAI

ASK Chemicals

SHANDONG KAITAI

Hill & Griffith

Midvale Industries

Smooth-On

Silike

Key Questions Addressed in this Report

What is the 10-year outlook for the global Release Agent for Green Sand Molds market?

What factors are driving Release Agent for Green Sand Molds market growth, globally and by region?

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

How do Release Agent for Green Sand Molds market opportunities vary by end market size?

How does Release Agent for Green Sand Molds break out by Type, by Application?

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 Release Agent for Green Sand Molds Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Release Agent for Green Sand Molds by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Release Agent for Green Sand Molds by Country/Region, 2021, 2025 & 2032

2.2 Release Agent for Green Sand Molds Segment by Type

- 2.2.1 Oil-based Release Agent
 - 2.2.2 Water-based Release Agent
 - 2.2.3 Release Agent for Green Sand Molds Sales by Type
 - 2.2.3.1 Global Release Agent for Green Sand Molds Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Release Agent for Green Sand Molds Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Release Agent for Green Sand Molds Sale Price by Type (2021-2026)
- #### 2.3 Release Agent for Green Sand Molds Segment by Function
- 2.3.1 Rust-inhibiting Type
 - 2.3.2 Cleaning Type
 - 2.3.3 Release Agent for Green Sand Molds Sales by Function
 - 2.3.3.1 Global Release Agent for Green Sand Molds Sales Market Share by Function (2021-2026)
 - 2.3.3.2 Global Release Agent for Green Sand Molds Revenue and Market Share by Function (2021-2026)
 - 2.3.3.3 Global Release Agent for Green Sand Molds Sale Price by Function

(2021-2026)

2.4 Release Agent for Green Sand Molds Segment by Spray Duration

2.4.1 Spray Duration: 0.2?0.3 Seconds Per Spray

2.4.2 Spray Duration: 0.5?0.8 Seconds Per Spray

2.4.3 Release Agent for Green Sand Molds Sales by Spray Duration

2.4.3.1 Global Release Agent for Green Sand Molds Sales Market Share by Spray Duration (2021-2026)

2.4.3.2 Global Release Agent for Green Sand Molds Revenue and Market Share by Spray Duration (2021-2026)

2.4.3.3 Global Release Agent for Green Sand Molds Sale Price by Spray Duration (2021-2026)

2.5 Release Agent for Green Sand Molds Segment by Application

2.5.1 Automobile Manufacturing

2.5.2 Aerospace

2.5.3 Precision Manufacturing

2.5.4 Others

2.5.5 Release Agent for Green Sand Molds Sales by Application

2.5.5.1 Global Release Agent for Green Sand Molds Sale Market Share by Application (2021-2026)

2.5.5.2 Global Release Agent for Green Sand Molds Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Release Agent for Green Sand Molds Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Release Agent for Green Sand Molds Breakdown Data by Company

3.1.1 Global Release Agent for Green Sand Molds Annual Sales by Company (2021-2026)

3.1.2 Global Release Agent for Green Sand Molds Sales Market Share by Company (2021-2026)

3.2 Global Release Agent for Green Sand Molds Annual Revenue by Company (2021-2026)

3.2.1 Global Release Agent for Green Sand Molds Revenue by Company (2021-2026)

3.2.2 Global Release Agent for Green Sand Molds Revenue Market Share by Company (2021-2026)

3.3 Global Release Agent for Green Sand Molds Sale Price by Company

3.4 Key Manufacturers Release Agent for Green Sand Molds Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Release Agent for Green Sand Molds Product Location Distribution

3.4.2 Players Release Agent for Green Sand Molds 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

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR RELEASE AGENT FOR GREEN SAND MOLDS BY GEOGRAPHIC REGION

4.1 World Historic Release Agent for Green Sand Molds Market Size by Geographic Region (2021-2026)

4.1.1 Global Release Agent for Green Sand Molds Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Release Agent for Green Sand Molds Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Release Agent for Green Sand Molds Market Size by Country/Region (2021-2026)

4.2.1 Global Release Agent for Green Sand Molds Annual Sales by Country/Region (2021-2026)

4.2.2 Global Release Agent for Green Sand Molds Annual Revenue by Country/Region (2021-2026)

4.3 Americas Release Agent for Green Sand Molds Sales Growth

4.4 APAC Release Agent for Green Sand Molds Sales Growth

4.5 Europe Release Agent for Green Sand Molds Sales Growth

4.6 Middle East & Africa Release Agent for Green Sand Molds Sales Growth

5 AMERICAS

5.1 Americas Release Agent for Green Sand Molds Sales by Country

5.1.1 Americas Release Agent for Green Sand Molds Sales by Country (2021-2026)

5.1.2 Americas Release Agent for Green Sand Molds Revenue by Country (2021-2026)

5.2 Americas Release Agent for Green Sand Molds Sales by Type (2021-2026)

5.3 Americas Release Agent for Green Sand Molds Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Release Agent for Green Sand Molds Sales by Region

6.1.1 APAC Release Agent for Green Sand Molds Sales by Region (2021-2026)

6.1.2 APAC Release Agent for Green Sand Molds Revenue by Region (2021-2026)

6.2 APAC Release Agent for Green Sand Molds Sales by Type (2021-2026)

6.3 APAC Release Agent for Green Sand Molds 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 Release Agent for Green Sand Molds by Country

7.1.1 Europe Release Agent for Green Sand Molds Sales by Country (2021-2026)

7.1.2 Europe Release Agent for Green Sand Molds Revenue by Country (2021-2026)

7.2 Europe Release Agent for Green Sand Molds Sales by Type (2021-2026)

7.3 Europe Release Agent for Green Sand Molds 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 Release Agent for Green Sand Molds by Country

8.1.1 Middle East & Africa Release Agent for Green Sand Molds Sales by Country (2021-2026)

8.1.2 Middle East & Africa Release Agent for Green Sand Molds Revenue by Country (2021-2026)

8.2 Middle East & Africa Release Agent for Green Sand Molds Sales by Type

(2021-2026)

8.3 Middle East & Africa Release Agent for Green Sand Molds Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

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 Release Agent for Green Sand Molds

10.3 Manufacturing Process Analysis of Release Agent for Green Sand Molds

10.4 Industry Chain Structure of Release Agent for Green Sand Molds

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Release Agent for Green Sand Molds Distributors

11.3 Release Agent for Green Sand Molds Customer

12 WORLD FORECAST REVIEW FOR RELEASE AGENT FOR GREEN SAND MOLDS BY GEOGRAPHIC REGION

12.1 Global Release Agent for Green Sand Molds Market Size Forecast by Region

12.1.1 Global Release Agent for Green Sand Molds Forecast by Region (2027-2032)

12.1.2 Global Release Agent for Green Sand Molds 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 Release Agent for Green Sand Molds Forecast by Type (2027-2032)

12.7 Global Release Agent for Green Sand Molds Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Xinda Casting Technology

13.1.1 Xinda Casting Technology Company Information

13.1.2 Xinda Casting Technology Release Agent for Green Sand Molds Product Portfolios and Specifications

13.1.3 Xinda Casting Technology Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Xinda Casting Technology Main Business Overview

13.1.5 Xinda Casting Technology Latest Developments

13.2 Carpenter Brothers, Inc.

13.2.1 Carpenter Brothers, Inc. Company Information

13.2.2 Carpenter Brothers, Inc. Release Agent for Green Sand Molds Product Portfolios and Specifications

13.2.3 Carpenter Brothers, Inc. Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Carpenter Brothers, Inc. Main Business Overview

13.2.5 Carpenter Brothers, Inc. Latest Developments

13.3 ACMOS

13.3.1 ACMOS Company Information

13.3.2 ACMOS Release Agent for Green Sand Molds Product Portfolios and Specifications

13.3.3 ACMOS Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 ACMOS Main Business Overview

13.3.5 ACMOS Latest Developments

13.4 Foseco

13.4.1 Foseco Company Information

13.4.2 Foseco Release Agent for Green Sand Molds Product Portfolios and Specifications

13.4.3 Foseco Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Foseco Main Business Overview

13.4.5 Foseco Latest Developments

13.5 SHIFT CHEMICAL

13.5.1 SHIFT CHEMICAL Company Information

13.5.2 SHIFT CHEMICAL Release Agent for Green Sand Molds Product Portfolios and Specifications

13.5.3 SHIFT CHEMICAL Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 SHIFT CHEMICAL Main Business Overview

13.5.5 SHIFT CHEMICAL Latest Developments

13.6 TETRA

13.6.1 TETRA Company Information

13.6.2 TETRA Release Agent for Green Sand Molds Product Portfolios and Specifications

13.6.3 TETRA Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 TETRA Main Business Overview

13.6.5 TETRA Latest Developments

13.7 Tag Chemicals GmbH

13.7.1 Tag Chemicals GmbH Company Information

13.7.2 Tag Chemicals GmbH Release Agent for Green Sand Molds Product Portfolios and Specifications

13.7.3 Tag Chemicals GmbH Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Tag Chemicals GmbH Main Business Overview

13.7.5 Tag Chemicals GmbH Latest Developments

13.8 SNJ Biotech PVT.LTD.

13.8.1 SNJ Biotech PVT.LTD. Company Information

13.8.2 SNJ Biotech PVT.LTD. Release Agent for Green Sand Molds Product Portfolios and Specifications

13.8.3 SNJ Biotech PVT.LTD. Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 SNJ Biotech PVT.LTD. Main Business Overview

13.8.5 SNJ Biotech PVT.LTD. Latest Developments

13.9 ZHONGKEHONGTAI

13.9.1 ZHONGKEHONGTAI Company Information

13.9.2 ZHONGKEHONGTAI Release Agent for Green Sand Molds Product Portfolios and Specifications

13.9.3 ZHONGKEHONGTAI Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 ZHONGKEHONGTAI Main Business Overview

- 13.9.5 ZHONGKEHONGTAI Latest Developments
- 13.10 ASK Chemicals
 - 13.10.1 ASK Chemicals Company Information
 - 13.10.2 ASK Chemicals Release Agent for Green Sand Molds Product Portfolios and Specifications
 - 13.10.3 ASK Chemicals Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 ASK Chemicals Main Business Overview
 - 13.10.5 ASK Chemicals Latest Developments
- 13.11 SHANDONG KAITAI
 - 13.11.1 SHANDONG KAITAI Company Information
 - 13.11.2 SHANDONG KAITAI Release Agent for Green Sand Molds Product Portfolios and Specifications
 - 13.11.3 SHANDONG KAITAI Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 SHANDONG KAITAI Main Business Overview
 - 13.11.5 SHANDONG KAITAI Latest Developments
- 13.12 Hill & Griffith
 - 13.12.1 Hill & Griffith Company Information
 - 13.12.2 Hill & Griffith Release Agent for Green Sand Molds Product Portfolios and Specifications
 - 13.12.3 Hill & Griffith Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Hill & Griffith Main Business Overview
 - 13.12.5 Hill & Griffith Latest Developments
- 13.13 Midvale Industries
 - 13.13.1 Midvale Industries Company Information
 - 13.13.2 Midvale Industries Release Agent for Green Sand Molds Product Portfolios and Specifications
 - 13.13.3 Midvale Industries Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Midvale Industries Main Business Overview
 - 13.13.5 Midvale Industries Latest Developments
- 13.14 Smooth-On
 - 13.14.1 Smooth-On Company Information
 - 13.14.2 Smooth-On Release Agent for Green Sand Molds Product Portfolios and Specifications
 - 13.14.3 Smooth-On Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Smooth-On Main Business Overview

13.14.5 Smooth-On Latest Developments

13.15 Silike

13.15.1 Silike Company Information

13.15.2 Silike Release Agent for Green Sand Molds Product Portfolios and Specifications

13.15.3 Silike Release Agent for Green Sand Molds Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Silike Main Business Overview

13.15.5 Silike Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Release Agent for Green Sand Molds Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Release Agent for Green Sand Molds Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Oil-based Release Agent

Table 4. Major Players of Water-based Release Agent

Table 5. Global Release Agent for Green Sand Molds Sales by Type (2021-2026) & (Tons)

Table 6. Global Release Agent for Green Sand Molds Sales Market Share by Type (2021-2026)

Table 7. Global Release Agent for Green Sand Molds Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Release Agent for Green Sand Molds Revenue Market Share by Type (2021-2026)

Table 9. Global Release Agent for Green Sand Molds Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Rust-inhibiting Type

Table 11. Major Players of Cleaning Type

Table 12. Global Release Agent for Green Sand Molds Sales by Function (2021-2026) & (Tons)

Table 13. Global Release Agent for Green Sand Molds Sales Market Share by Function (2021-2026)

Table 14. Global Release Agent for Green Sand Molds Revenue by Function (2021-2026) & (\$ million)

Table 15. Global Release Agent for Green Sand Molds Revenue Market Share by Function (2021-2026)

Table 16. Global Release Agent for Green Sand Molds Sale Price by Function (2021-2026) & (US\$/Ton)

Table 17. Major Players of Spray Duration: 0.2?0.3 Seconds Per Spray

Table 18. Major Players of Spray Duration: 0.5?0.8 Seconds Per Spray

Table 19. Global Release Agent for Green Sand Molds Sales by Spray Duration (2021-2026) & (Tons)

Table 20. Global Release Agent for Green Sand Molds Sales Market Share by Spray Duration (2021-2026)

Table 21. Global Release Agent for Green Sand Molds Revenue by Spray Duration

(2021-2026) & (\$ million)

Table 22. Global Release Agent for Green Sand Molds Revenue Market Share by Spray Duration (2021-2026)

Table 23. Global Release Agent for Green Sand Molds Sale Price by Spray Duration (2021-2026) & (US\$/Ton)

Table 24. Global Release Agent for Green Sand Molds Sale by Application (2021-2026) & (Tons)

Table 25. Global Release Agent for Green Sand Molds Sale Market Share by Application (2021-2026)

Table 26. Global Release Agent for Green Sand Molds Revenue by Application (2021-2026) & (\$ million)

Table 27. Global Release Agent for Green Sand Molds Revenue Market Share by Application (2021-2026)

Table 28. Global Release Agent for Green Sand Molds Sale Price by Application (2021-2026) & (US\$/Ton)

Table 29. Global Release Agent for Green Sand Molds Sales by Company (2021-2026) & (Tons)

Table 30. Global Release Agent for Green Sand Molds Sales Market Share by Company (2021-2026)

Table 31. Global Release Agent for Green Sand Molds Revenue by Company (2021-2026) & (\$ millions)

Table 32. Global Release Agent for Green Sand Molds Revenue Market Share by Company (2021-2026)

Table 33. Global Release Agent for Green Sand Molds Sale Price by Company (2021-2026) & (US\$/Ton)

Table 34. Key Manufacturers Release Agent for Green Sand Molds Producing Area Distribution and Sales Area

Table 35. Players Release Agent for Green Sand Molds Products Offered

Table 36. Release Agent for Green Sand Molds Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Market M&A Activity & Strategy

Table 39. Global Release Agent for Green Sand Molds Sales by Geographic Region (2021-2026) & (Tons)

Table 40. Global Release Agent for Green Sand Molds Sales Market Share Geographic Region (2021-2026)

Table 41. Global Release Agent for Green Sand Molds Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 42. Global Release Agent for Green Sand Molds Revenue Market Share by

Geographic Region (2021-2026)

Table 43. Global Release Agent for Green Sand Molds Sales by Country/Region (2021-2026) & (Tons)

Table 44. Global Release Agent for Green Sand Molds Sales Market Share by Country/Region (2021-2026)

Table 45. Global Release Agent for Green Sand Molds Revenue by Country/Region (2021-2026) & (\$ millions)

Table 46. Global Release Agent for Green Sand Molds Revenue Market Share by Country/Region (2021-2026)

Table 47. Americas Release Agent for Green Sand Molds Sales by Country (2021-2026) & (Tons)

Table 48. Americas Release Agent for Green Sand Molds Sales Market Share by Country (2021-2026)

Table 49. Americas Release Agent for Green Sand Molds Revenue by Country (2021-2026) & (\$ millions)

Table 50. Americas Release Agent for Green Sand Molds Sales by Type (2021-2026) & (Tons)

Table 51. Americas Release Agent for Green Sand Molds Sales by Application (2021-2026) & (Tons)

Table 52. APAC Release Agent for Green Sand Molds Sales by Region (2021-2026) & (Tons)

Table 53. APAC Release Agent for Green Sand Molds Sales Market Share by Region (2021-2026)

Table 54. APAC Release Agent for Green Sand Molds Revenue by Region (2021-2026) & (\$ millions)

Table 55. APAC Release Agent for Green Sand Molds Sales by Type (2021-2026) & (Tons)

Table 56. APAC Release Agent for Green Sand Molds Sales by Application (2021-2026) & (Tons)

Table 57. Europe Release Agent for Green Sand Molds Sales by Country (2021-2026) & (Tons)

Table 58. Europe Release Agent for Green Sand Molds Revenue by Country (2021-2026) & (\$ millions)

Table 59. Europe Release Agent for Green Sand Molds Sales by Type (2021-2026) & (Tons)

Table 60. Europe Release Agent for Green Sand Molds Sales by Application (2021-2026) & (Tons)

Table 61. Middle East & Africa Release Agent for Green Sand Molds Sales by Country (2021-2026) & (Tons)

Table 62. Middle East & Africa Release Agent for Green Sand Molds Revenue Market Share by Country (2021-2026)

Table 63. Middle East & Africa Release Agent for Green Sand Molds Sales by Type (2021-2026) & (Tons)

Table 64. Middle East & Africa Release Agent for Green Sand Molds Sales by Application (2021-2026) & (Tons)

Table 65. Key Market Drivers & Growth Opportunities of Release Agent for Green Sand Molds

Table 66. Key Market Challenges & Risks of Release Agent for Green Sand Molds

Table 67. Key Industry Trends of Release Agent for Green Sand Molds

Table 68. Release Agent for Green Sand Molds Raw Material

Table 69. Key Suppliers of Raw Materials

Table 70. Release Agent for Green Sand Molds Distributors List

Table 71. Release Agent for Green Sand Molds Customer List

Table 72. Global Release Agent for Green Sand Molds Sales Forecast by Region (2027-2032) & (Tons)

Table 73. Global Release Agent for Green Sand Molds Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Americas Release Agent for Green Sand Molds Sales Forecast by Country (2027-2032) & (Tons)

Table 75. Americas Release Agent for Green Sand Molds Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. APAC Release Agent for Green Sand Molds Sales Forecast by Region (2027-2032) & (Tons)

Table 77. APAC Release Agent for Green Sand Molds Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Europe Release Agent for Green Sand Molds Sales Forecast by Country (2027-2032) & (Tons)

Table 79. Europe Release Agent for Green Sand Molds Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. Middle East & Africa Release Agent for Green Sand Molds Sales Forecast by Country (2027-2032) & (Tons)

Table 81. Middle East & Africa Release Agent for Green Sand Molds Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Global Release Agent for Green Sand Molds Sales Forecast by Type (2027-2032) & (Tons)

Table 83. Global Release Agent for Green Sand Molds Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 84. Global Release Agent for Green Sand Molds Sales Forecast by Application

(2027-2032) & (Tons)

Table 85. Global Release Agent for Green Sand Molds Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 86. Xinda Casting Technology Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 87. Xinda Casting Technology Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 88. Xinda Casting Technology Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 89. Xinda Casting Technology Main Business

Table 90. Xinda Casting Technology Latest Developments

Table 91. Carpenter Brothers, Inc. Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 92. Carpenter Brothers, Inc. Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 93. Carpenter Brothers, Inc. Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 94. Carpenter Brothers, Inc. Main Business

Table 95. Carpenter Brothers, Inc. Latest Developments

Table 96. ACMOS Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 97. ACMOS Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 98. ACMOS Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 99. ACMOS Main Business

Table 100. ACMOS Latest Developments

Table 101. Foseco Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 102. Foseco Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 103. Foseco Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 104. Foseco Main Business

Table 105. Foseco Latest Developments

Table 106. SHIFT CHEMICAL Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 107. SHIFT CHEMICAL Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 108. SHIFT CHEMICAL Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 109. SHIFT CHEMICAL Main Business

Table 110. SHIFT CHEMICAL Latest Developments

Table 111. TETRA Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 112. TETRA Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 113. TETRA Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 114. TETRA Main Business

Table 115. TETRA Latest Developments

Table 116. Tag Chemicals GmbH Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 117. Tag Chemicals GmbH Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 118. Tag Chemicals GmbH Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 119. Tag Chemicals GmbH Main Business

Table 120. Tag Chemicals GmbH Latest Developments

Table 121. SNJ Biotech PVT.LTD. Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 122. SNJ Biotech PVT.LTD. Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 123. SNJ Biotech PVT.LTD. Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 124. SNJ Biotech PVT.LTD. Main Business

Table 125. SNJ Biotech PVT.LTD. Latest Developments

Table 126. ZHONGKEHONGTAI Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 127. ZHONGKEHONGTAI Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 128. ZHONGKEHONGTAI Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 129. ZHONGKEHONGTAI Main Business

Table 130. ZHONGKEHONGTAI Latest Developments

Table 131. ASK Chemicals Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 132. ASK Chemicals Release Agent for Green Sand Molds Product Portfolios and

Specifications

Table 133. ASK Chemicals Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 134. ASK Chemicals Main Business

Table 135. ASK Chemicals Latest Developments

Table 136. SHANDONG KAITAI Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 137. SHANDONG KAITAI Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 138. SHANDONG KAITAI Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 139. SHANDONG KAITAI Main Business

Table 140. SHANDONG KAITAI Latest Developments

Table 141. Hill & Griffith Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 142. Hill & Griffith Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 143. Hill & Griffith Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 144. Hill & Griffith Main Business

Table 145. Hill & Griffith Latest Developments

Table 146. Midvale Industries Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 147. Midvale Industries Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 148. Midvale Industries Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 149. Midvale Industries Main Business

Table 150. Midvale Industries Latest Developments

Table 151. Smooth-On Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 152. Smooth-On Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 153. Smooth-On Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 154. Smooth-On Main Business

Table 155. Smooth-On Latest Developments

Table 156. Silike Basic Information, Release Agent for Green Sand Molds Manufacturing Base, Sales Area and Its Competitors

Table 157. Silike Release Agent for Green Sand Molds Product Portfolios and Specifications

Table 158. Silike Release Agent for Green Sand Molds Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 159. Silike Main Business

Table 160. Silike Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Release Agent for Green Sand Molds
- Figure 2. Release Agent for Green Sand Molds Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Release Agent for Green Sand Molds Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Release Agent for Green Sand Molds Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Release Agent for Green Sand Molds Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Release Agent for Green Sand Molds Sales Market Share by Country/Region (2025)
- Figure 10. Release Agent for Green Sand Molds Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Oil-based Release Agent
- Figure 12. Product Picture of Water-based Release Agent
- Figure 13. Global Release Agent for Green Sand Molds Sales Market Share by Type in 2026
- Figure 14. Global Release Agent for Green Sand Molds Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Rust-inhibiting Type
- Figure 16. Product Picture of Cleaning Type
- Figure 17. Global Release Agent for Green Sand Molds Sales Market Share by Function in 2026
- Figure 18. Global Release Agent for Green Sand Molds Revenue Market Share by Function (2021-2026)
- Figure 19. Product Picture of Spray Duration: 0.2?0.3 Seconds Per Spray
- Figure 20. Product Picture of Spray Duration: 0.5?0.8 Seconds Per Spray
- Figure 21. Global Release Agent for Green Sand Molds Sales Market Share by Spray Duration in 2026
- Figure 22. Global Release Agent for Green Sand Molds Revenue Market Share by Spray Duration (2021-2026)
- Figure 23. Release Agent for Green Sand Molds Consumed in Automobile Manufacturing

- Figure 24. Global Release Agent for Green Sand Molds Market: Automobile Manufacturing (2021-2026) & (Tons)
- Figure 25. Release Agent for Green Sand Molds Consumed in Aerospace
- Figure 26. Global Release Agent for Green Sand Molds Market: Aerospace (2021-2026) & (Tons)
- Figure 27. Release Agent for Green Sand Molds Consumed in Precision Manufacturing
- Figure 28. Global Release Agent for Green Sand Molds Market: Precision Manufacturing (2021-2026) & (Tons)
- Figure 29. Release Agent for Green Sand Molds Consumed in Others
- Figure 30. Global Release Agent for Green Sand Molds Market: Others (2021-2026) & (Tons)
- Figure 31. Global Release Agent for Green Sand Molds Sale Market Share by Application (2025)
- Figure 32. Global Release Agent for Green Sand Molds Revenue Market Share by Application in 2025
- Figure 33. Release Agent for Green Sand Molds Sales by Company in 2025 (Tons)
- Figure 34. Global Release Agent for Green Sand Molds Sales Market Share by Company in 2025
- Figure 35. Release Agent for Green Sand Molds Revenue by Company in 2025 (\$ millions)
- Figure 36. Global Release Agent for Green Sand Molds Revenue Market Share by Company in 2025
- Figure 37. Global Release Agent for Green Sand Molds Sales Market Share by Geographic Region (2021-2026)
- Figure 38. Global Release Agent for Green Sand Molds Revenue Market Share by Geographic Region in 2025
- Figure 39. Americas Release Agent for Green Sand Molds Sales 2021-2026 (Tons)
- Figure 40. Americas Release Agent for Green Sand Molds Revenue 2021-2026 (\$ millions)
- Figure 41. APAC Release Agent for Green Sand Molds Sales 2021-2026 (Tons)
- Figure 42. APAC Release Agent for Green Sand Molds Revenue 2021-2026 (\$ millions)
- Figure 43. Europe Release Agent for Green Sand Molds Sales 2021-2026 (Tons)
- Figure 44. Europe Release Agent for Green Sand Molds Revenue 2021-2026 (\$ millions)
- Figure 45. Middle East & Africa Release Agent for Green Sand Molds Sales 2021-2026 (Tons)
- Figure 46. Middle East & Africa Release Agent for Green Sand Molds Revenue 2021-2026 (\$ millions)
- Figure 47. Americas Release Agent for Green Sand Molds Sales Market Share by

Country in 2025

Figure 48. Americas Release Agent for Green Sand Molds Revenue Market Share by Country (2021-2026)

Figure 49. Americas Release Agent for Green Sand Molds Sales Market Share by Type (2021-2026)

Figure 50. Americas Release Agent for Green Sand Molds Sales Market Share by Application (2021-2026)

Figure 51. United States Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 52. Canada Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 53. Mexico Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 54. Brazil Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 55. APAC Release Agent for Green Sand Molds Sales Market Share by Region in 2025

Figure 56. APAC Release Agent for Green Sand Molds Revenue Market Share by Region (2021-2026)

Figure 57. APAC Release Agent for Green Sand Molds Sales Market Share by Type (2021-2026)

Figure 58. APAC Release Agent for Green Sand Molds Sales Market Share by Application (2021-2026)

Figure 59. China Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 60. Japan Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 61. South Korea Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 63. India Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe Release Agent for Green Sand Molds Sales Market Share by Country in 2025

Figure 67. Europe Release Agent for Green Sand Molds Revenue Market Share by Country (2021-2026)

Figure 68. Europe Release Agent for Green Sand Molds Sales Market Share by Type (2021-2026)

Figure 69. Europe Release Agent for Green Sand Molds Sales Market Share by Application (2021-2026)

Figure 70. Germany Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 71. France Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 75. Middle East & Africa Release Agent for Green Sand Molds Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa Release Agent for Green Sand Molds Sales Market Share by Type (2021-2026)

Figure 77. Middle East & Africa Release Agent for Green Sand Molds Sales Market Share by Application (2021-2026)

Figure 78. Egypt Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries Release Agent for Green Sand Molds Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of Release Agent for Green Sand Molds in 2026

Figure 84. Manufacturing Process Analysis of Release Agent for Green Sand Molds

Figure 85. Industry Chain Structure of Release Agent for Green Sand Molds

Figure 86. Channels of Distribution

Figure 87. Global Release Agent for Green Sand Molds Sales Market Forecast by Region (2027-2032)

Figure 88. Global Release Agent for Green Sand Molds Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global Release Agent for Green Sand Molds Sales Market Share Forecast by Type (2027-2032)

Figure 90. Global Release Agent for Green Sand Molds Revenue Market Share Forecast by Type (2027-2032)

Figure 91. Global Release Agent for Green Sand Molds Sales Market Share Forecast by Application (2027-2032)

Figure 92. Global Release Agent for Green Sand Molds Revenue Market Share Forecast by Application (2027-2032)

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