

Global Release Agent for Green Sand Molds Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Release Agent for Green Sand Molds market size is expected to reach \$ 23.77 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Release Agent for Green Sand Molds production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Release

Agent for Green Sand Molds 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 Release Agent for Green Sand Molds that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Release Agent for Green Sand Molds total production and demand, 2021-2032, (Tons)

Global Release Agent for Green Sand Molds total production value, 2021-2032, (USD Million)

Global Release Agent for Green Sand Molds production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Release Agent for Green Sand Molds consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Release Agent for Green Sand Molds domestic production, consumption, key domestic manufacturers and share

Global Release Agent for Green Sand Molds production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Release Agent for Green Sand Molds production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Release Agent for Green Sand Molds production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Release Agent for Green Sand Molds 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 Xinda Casting Technology, Carpenter Brothers, Inc., ACMOS, Foseco, SHIFT CHEMICAL, TETRA, Tag Chemicals GmbH, SNJ Biotech PVT.LTD., ZHONGKEHONGTAI, ASK Chemicals, 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 Release Agent for Green Sand Molds market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Release Agent for Green Sand Molds Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Release Agent for Green Sand Molds Market, Segmentation by Type:

Oil-based Release Agent

Water-based Release Agent

Global Release Agent for Green Sand Molds Market, Segmentation by Function:

Rust-inhibiting Type

Cleaning Type

Global Release Agent for Green Sand Molds Market, Segmentation by Spray Duration:

Spray Duration: 0.2?0.3 Seconds Per Spray

Spray Duration: 0.5?0.8 Seconds Per Spray

Global Release Agent for Green Sand Molds Market, Segmentation by Application:

Automobile Manufacturing

Aerospace

Precision Manufacturing

Others

Companies Profiled:

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 Answered:

1. How big is the global Release Agent for Green Sand Molds market?
2. What is the demand of the global Release Agent for Green Sand Molds market?
3. What is the year over year growth of the global Release Agent for Green Sand Molds market?
4. What is the production and production value of the global Release Agent for Green Sand Molds market?
5. Who are the key producers in the global Release Agent for Green Sand Molds market?
6. What are the growth factors driving the market demand?

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