

# **Dry Ramming Mass Market Forecasts to 2034 – Global Analysis By Type (Silica-based, Magnesia-based, Alumina-based, Chromite-based, Zirconia-based and Other Types), Function (Lining, Patching, Repairing and Other Functions), Technology, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Dry Ramming Mass Market is accounted for \$3.50 billion in 2026 and is expected to reach \$6.79 billion by 2034 growing at a CAGR of 8.6% during the forecast period. Dry Ramming Mass is a refractory material crucial in the steel and iron industry. Composed of granular refractory aggregates and bonding agents, it is applied as a dry mix and then compacted in various high-temperature applications like furnaces and ladles. Its primary function is to form a protective lining, resisting extreme heat, chemical corrosion, and mechanical wear. Dry Ramming Mass ensures optimal performance in metallurgical processes, enhancing the durability and efficiency of industrial furnaces.

According to a study published by the India Brands Equity Foundation, 230 metric tons (MT) of finished steel would be used in India by 2030–31, rising from 93.43 tons (MT) in 2020–21.

### **Market Dynamics:**

#### **Driver:**

Growing infrastructure projects

Growing infrastructure projects drive the demand for steel, a key material in construction. This surge in steel production, in turn, propels the dry ramming mass sector, as it is essential for lining furnaces in steel manufacturing. Dry ramming mass ensures optimal performance in high-temperature environments, enhancing the durability and efficiency of industrial furnaces. The robustness of this refractory material makes it indispensable for maintaining furnace integrity during the intense heat generated in steel production. Consequently, the rising need for dry ramming mass becomes integral to supporting the infrastructure boom by facilitating the reliable and continuous operation of steel manufacturing processes.

**Restraint:**

Complex installation process

The complex installation process of dry ramming mass stems from precise application requirements, involving skilled labor and adherence to specific procedures. Industries may opt for alternative refractory materials with simpler application processes, potentially slowing the adoption of dry ramming mass. Additionally, the intricate installation may deter potential users, particularly in regions or industries where ease of application is prioritized, adversely impacting the market's expansion and limiting its competitive advantage in certain applications.

**Opportunity:**

Increasing investments in foundries

Foundries extensively use dry ramming mass for lining furnaces and crucibles in metal casting processes. As foundry capacities expand, the requirement for high-quality refractories escalates, creating opportunities for dry ramming mass suppliers. Its ability to withstand extreme temperatures and provide superior performance in foundry applications positions it as a preferred choice, directly benefiting from the surge in investments within the foundry sector and fostering overall market growth.

**Threat:**

High cost of raw materials

Premium-quality refractory materials, that are crucial for optimal performance, contribute significantly to the overall manufacturing cost. Fluctuations in raw material prices pose

challenges, making it difficult for manufacturers to maintain competitive pricing. This cost burden may deter potential buyers, compelling them to explore more cost-effective alternatives. Consequently, the market growth for dry ramming mass is hindered as the pricing constraints limit its competitiveness in comparison to other refractory materials, impacting its widespread adoption in various industrial applications.

### Covid-19 Impact

The covid-19 pandemic has impacted the dry ramming mass market by disrupting global supply chains, causing production delays, and affecting demand in various industries. Lockdowns, travel restrictions, and reduced economic activities have led to a slowdown in construction and industrial projects, impacting the demand for refractory materials. Additionally, fluctuations in raw material prices and labor shortages have added challenges to the production process. The overall uncertainty and economic downturn have restrained investments, affecting the dry ramming mass market's growth during the pandemic.

The specialized dry ramming mass technologies segment is expected to be the largest during the forecast period

The specialized dry ramming mass technologies segment is estimated to have a lucrative growth, due to its advanced formulations and manufacturing processes tailored for specific high-temperature applications. These technologies focus on optimizing the refractory properties of the material, enhancing its resistance to extreme conditions. The development of specialized technologies in dry ramming mass enhances its performance in critical applications such as steel production, foundries, and non-ferrous metal industries, contributing to increased efficiency and longevity in refractory linings.

The ceramic industry segment is expected to have the highest CAGR during the forecast period

The ceramic industry segment is anticipated to witness the highest CAGR growth during the forecast period. In the ceramic industry, high-temperature resistance and excellent thermal shock properties of dry ramming mass makes it ideal for creating durable linings that withstand extreme conditions during ceramic production. The material provides a stable environment for firing processes, ensuring consistent and high-quality ceramic products. It contributes to the efficiency of ceramic manufacturing by offering reliable refractory solutions, prolonging equipment life, and maintaining optimal conditions for the production of various ceramic materials and products.

### **Region with largest share:**

Asia Pacific is projected to hold the largest market share during the forecast period owing to the robust industrialization, particularly in the steel and metal industries. Rising infrastructure projects, rapid urbanization, and increased manufacturing activities in countries like China and India contribute to the escalating demand for refractory materials. The burgeoning construction sector and expansion of foundries further fuel market growth. Overall, the Asia-Pacific Dry Ramming Mass market is poised for expansion, aligning with the region's dynamic economic development and industrial progress.

### **Region with highest CAGR:**

Europe is projected to have the highest CAGR over the forecast period, owing to the presence of well-established steel, automotive, and manufacturing industries. The region's emphasis on technological advancements and adherence to stringent environmental standards boosts the adoption of high-performance refractories like dry ramming mass. Additionally, the shift towards sustainable practices and alternative materials poses challenges. Despite these factors, the European Dry Ramming Mass market benefits from a stable industrial base and a focus on quality in manufacturing processes.

### **Key players in the market**

Some of the key players profiled in the Dry Ramming Mass Market include Vesuvius PLC, RHI Magnesita, HarbisonWalker International, Morgan Advanced Materials, Imerys, Resco Products, Saint Gobain, Dense Refractories Limited, Imperial World Trade Private Limited, Vishva Vishal Refractory Limited, Refcast Corporation, Gita Refractories Private Limited and Shenghe Refractories.

### **Key Developments:**

In May 2022, Saint-Gobain, a global leader in building materials and construction solutions, announced collaboration with Imerys to develop next-generation refractory materials, including dry ramming mass, for the steelmaking industry. This collaboration aims to leverage the expertise of both companies to develop innovative and sustainable refractory solutions.

In January 2022, Imerys, a global leader in mineral-based solutions, acquired Kerneos, a French manufacturer of refractory products, including dry ramming mass. This acquisition strengthened Imerys' position in the refractory market and expanded its product portfolio to include a wider range of dry ramming mass solutions.

#### Types Covered:

Silica-based

Magnesia-based

Alumina-based

Chromite-based

Zirconia-based

Other Types

#### Functions Covered:

Lining

Patching

Repairing

Other Functions

#### Technologies Covered:

Traditional Dry Ramming Mass Technology

Advanced Refractory Technologies

Specialized Dry Ramming Mass Technologies

## Other Technologies

### Applications Covered:

Boilers

Containment Vessels

Furnaces

Ladles

Other Applications

### End Users Covered:

Ceramic Industry

Glass Industry

Non-Ferrous Metal Industry

Steel Industry

Petrochemical Industry

Other End Users

### Regions Covered:

North America

US

Canada

Mexico

## Europe

Germany

UK

Italy

France

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

**What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 3032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

## Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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