

Global Resin Coated Ceramic Foundry Sand Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Resin Coated Ceramic Foundry Sand market size is expected to reach \$ 159 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Resin coated ceramic foundry sand is a pre mixed casting material made by uniformly coating phenolic resin, curing agent, lubricant, and functional additives with spherical refractory ceramic particles as the base sand under heating conditions. Its core structure consists of a high refractory, low expansion spherical ceramic sand core material and a thermosetting resin film layer, which can quickly solidify in a heated mold to form a sand mold or sand core with certain strength and dimensional accuracy. Compared with ordinary laminated silica sand, resin coated ceramic foundry sand has the characteristics of high sphericity, good flowability, high refractoriness, low thermal expansion rate, low resin addition, low gas generation, and good cyclic performance. It is mainly used in shell casting, hot core box core making, precision sand core, complex thin-walled castings, and high-temperature alloy casting production, which can reduce casting defects such as sand sticking, vein patterns, sand inclusion, deformation, and dimensional deviation.

In 2025, global Resin Coated Ceramic Foundry Sand production reached approximately 195.67 K MT, with an average global market price of around US\$ 542 per MT. The annual production capacity of resin coated ceramic foundry sand is 280 K MT, with a gross profit margin of about 25%.

The upstream mainly includes spherical base sands such as fused ceramic sand and sintered mullite ceramic sand, as well as phenolic resins, urotropin curing agents, calcium stearate lubricants, silane coupling agents, and other functional additives.

The downstream mainly includes automobile parts, hydraulic parts, pump valves, engineering machinery, rail transportation, wind power equipment, ships, aerospace and high-end steel casting production enterprises, specifically used for shell casting, hot core box core making, complex sand cores and high-precision thin-walled castings.

Raw material costs account for 70%; 10% labor cost; The manufacturing cost is 25%.

Resin coated ceramic foundry sand is an important upgrade direction for high-performance coated sand, and its market demand mainly comes from fields with high requirements for sand core strength, dimensional stability, and casting surface quality, such as automotive engine components, hydraulic parts, engineering machinery, rail transportation, wind power equipment, pumps and valves, aerospace, and high-end steel castings. The future growth of the industry will be driven by the lightweighting of automotive components, the increase of complex internal cavity structures, the upgrading of casting automation, environmental emission constraints, and the localization of high-end equipment. Product competition will also shift from price to resin film uniformity, gas generation, tensile strength, high temperature resistance, particle size stability, and regeneration cycle life. The main limiting factors in the market include high initial costs, the need for formula adaptation between different resin systems and casting alloys, and significant investment in recycling equipment. With casting companies placing greater emphasis on yield, clean production, and comprehensive manufacturing costs, the penetration rate of coated ceramic sand in complex sand cores, thin-walled castings, and high-end metal casting is expected to continue to increase.

Report Scope

This report studies the global Resin Coated Ceramic Foundry Sand production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Resin Coated Ceramic Foundry Sand 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 Resin Coated Ceramic Foundry Sand that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Resin Coated Ceramic Foundry Sand total production and demand, 2021-2032, (Kilotons)

Global Resin Coated Ceramic Foundry Sand total production value, 2021-2032, (USD Million)

Global Resin Coated Ceramic Foundry Sand production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Resin Coated Ceramic Foundry Sand consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Resin Coated Ceramic Foundry Sand domestic production, consumption, key domestic manufacturers and share

Global Resin Coated Ceramic Foundry Sand production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Resin Coated Ceramic Foundry Sand production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Resin Coated Ceramic Foundry Sand production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Resin Coated Ceramic Foundry Sand 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 Itochu Ceratech, CARBO Ceramics, Lianxin Casting Sand Group, Henan Ruishi Renewable Resources Group, Sanmenxia Qiangxin Foundry Material, Luoyang Kailin Foundry Material, Luoyang Ruiyu Ceramic Sand, Mianchi Chenghui New Material, Mianchi County Zhikai New Materials, Diamond Ceramics, 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 Resin Coated Ceramic Foundry Sand market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Resin Coated Ceramic Foundry Sand Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Resin Coated Ceramic Foundry Sand Market, Segmentation by Type:

Under 70 Mesh

70-140 Mesh

Above 140 Mesh

Global Resin Coated Ceramic Foundry Sand Market, Segmentation by Alumina Content:

Al₂O₃ < 70%

Al₂O₃ 70–75%

Al₂O₃ > 75%

Global Resin Coated Ceramic Foundry Sand Market, Segmentation by Application:

Carbon Steel Castings

Alloy Steel Castings

Cast Iron Castings

Copper Castings

Other

Companies Profiled:

Itochu Ceratech

CARBO Ceramics

Lianxin Casting Sand Group

Henan Ruishi Renewable Resources Group

Sanmenxia Qiangxin Foundry Material

Luoyang Kailin Foundry Material

Luoyang Ruiyu Ceramic Sand

Mianchi Chenghui New Material

Mianchi County Zhikai New Materials

Diamond Ceramics

Jinnaiyuan (Henan)Industrial Technology

CMP Group

Hebei Chida Manufacture

Key Questions Answered:

1. How big is the global Resin Coated Ceramic Foundry Sand market?
2. What is the demand of the global Resin Coated Ceramic Foundry Sand market?
3. What is the year over year growth of the global Resin Coated Ceramic Foundry Sand market?
4. What is the production and production value of the global Resin Coated Ceramic Foundry Sand market?
5. Who are the key producers in the global Resin Coated Ceramic Foundry Sand market?
6. What are the growth factors driving the market demand?

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