

Global Spherical Ceramic Sand Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Spherical Ceramic Sand market size is expected to reach \$ 354 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Spherical ceramic sand is a spherical particle material made from ceramics as the substrate and manufactured through high-temperature sintering process. Due to its unique physical and chemical properties, spherical ceramic sand is widely used in various fields, especially in industries such as casting and sandblasting. Ceramic sand is a specially treated ceramic material with spherical particle shape, which gives it excellent fluidity and filling properties during the casting process.

In 2025, global Spherical Ceramic Sand production reached approximately 325.64 K MT, with an average global market price of around US\$ 745 per MT.

Spherical ceramic sand is gradually developing from a high-end casting auxiliary material to an important functional material for improving yield, reducing comprehensive costs, and promoting green casting. The current demand mainly comes from the fields of automotive parts, engineering machinery, pumps and valves, rail transportation, wind power equipment, ships, aerospace, and large cast steel parts, especially suitable for complex sand cores, thin-walled structures, high-temperature alloys, and castings with high dimensional accuracy requirements. Although its initial purchase price is higher than that of ordinary silica sand, spherical particles can reduce resin consumption, lower thermal expansion rate helps to reduce casting defects, and the material can be recycled multiple times, making it more economical throughout the entire life cycle in casting enterprises with high automation, strict environmental requirements, and a high proportion of quality costs. The future market growth will mainly be driven by green casting transformation, expansion of sand mold 3D printing, upgrading of high-end

equipment manufacturing, and rising labor costs. The competition focus will also shift from simple price to sphericity, fire resistance, thermal expansion rate, particle size stability, fracture resistance, and cycle life. Molten ceramic sand will still dominate the main market with its supply scale and cost advantages, while sintered mullite ceramic sand will maintain strong competitiveness in high-end cast steel, precision core making, and high cycle regeneration scenarios.

Report Scope

This report studies the global Spherical Ceramic Sand production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Spherical Ceramic Sand total production and demand, 2021-2032, (Kilotons)

Global Spherical Ceramic Sand total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Spherical Ceramic 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, Saint-Gobain, Lianxin Casting Sand Group, Henan Ruishi Renewable Resources Group, Sanmenxia Qiangxin Foundry Material, Luoyang Kailin Foundry Material, Luoyang Ruiyu Ceramic Sand, 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 Spherical Ceramic 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 Spherical Ceramic Sand Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Spherical Ceramic Sand Market, Segmentation by Type:

Under 70 Mesh

70-140 Mesh

Above 140 Mesh

Global Spherical Ceramic Sand Market, Segmentation by Alumina Content:

Al₂O₃ < 70%

Al₂O₃ 70–75%

Al₂O₃ > 75%

Global Spherical Ceramic Sand Market, Segmentation by Manufacturing Process:

Fused Ceramic Sand

Sintered Ceramic Sand

Global Spherical Ceramic Sand Market, Segmentation by Application:

Carbon Steel Castings

Alloy Steel Castings

Cast Iron Castings

Copper Castings

Other

Companies Profiled:

Itochu Ceratech

CARBO Ceramics

Saint-Gobain

Lianxin Casting Sand Group

Henan Ruishi Renewable Resources Group

Sanmenxia Qiangxin Foundry Material

Luoyang Kailin Foundry Material

Luoyang Ruiyu Ceramic Sand

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 Spherical Ceramic Sand market?
2. What is the demand of the global Spherical Ceramic Sand market?
3. What is the year over year growth of the global Spherical Ceramic Sand market?
4. What is the total value of the global Spherical Ceramic Sand market?
5. Who are the Major Players in the global Spherical Ceramic Sand market?
6. What are the growth factors driving the market demand?

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