

Global Spherical Ceramic Sand Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Spherical Ceramic Sand market size was valued at US\$ 250 million in 2025 and is forecast to a readjusted size of US\$ 354 million by 2032 with a CAGR of 5.0% during review period.

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 is a detailed and comprehensive analysis for global Spherical Ceramic Sand market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Spherical Ceramic Sand market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Spherical Ceramic Sand market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Spherical Ceramic Sand market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Spherical Ceramic Sand market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Spherical Ceramic Sand

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Spherical Ceramic Sand market based on the following parameters - company overview, sales quantity, revenue, 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.

Spherical Ceramic Sand market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Under 70 Mesh

70-140 Mesh

Above 140 Mesh

Market segment by Alumina Content

Al₂O₃ < 70%

Al₂O₃ 70–75%

Al₂O₃ > 75%

Market segment by Manufacturing Process

Fused Ceramic Sand

Sintered Ceramic Sand

Market segment by Application

Carbon Steel Castings

Alloy Steel Castings

Cast Iron Castings

Copper Castings

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Spherical Ceramic Sand product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Spherical Ceramic Sand, with price, sales quantity, revenue, and global market share of Spherical Ceramic Sand from 2021 to 2026.

Chapter 3, the Spherical Ceramic Sand competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Spherical Ceramic Sand breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Spherical Ceramic Sand market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Spherical Ceramic Sand.

Chapter 14 and 15, to describe Spherical Ceramic Sand sales channel, distributors, customers, research findings and conclusion.

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