

# Global High-alumina Thermal Storage Ceramic Balls 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 High-alumina Thermal Storage Ceramic Balls market size was valued at US\$ 8.23 million in 2025 and is forecast to a readjusted size of US\$ 10.58 million by 2032 with a CAGR of 2.2% during review period.

High-alumina thermal storage ceramic balls are dense, spherical inorganic refractory materials primarily composed of alumina ( $Al_2O_3$ ) as the main functional component, manufactured through high-temperature sintering of bauxite and auxiliary mineral materials, designed with excellent heat absorption, heat storage, and thermal stability to efficiently store and transfer thermal energy in high-temperature industrial environments while resisting thermal shock, corrosion, and wear. This report examines thermal storage ceramic balls with an aluminum content of 80% or more.

In 2025, global High-alumina Thermal Storage Ceramic Balls production reached approximately 6,421 tons, with an average global market price of around US\$ 1,246 per ton. The production capacity of High-alumina Thermal Storage Ceramic Balls is approximately 8 K tons per year, the average gross profit margin was 11-16%.

The supply chain of high-alumina thermal storage ceramic balls is supported upstream by raw material suppliers providing high-alumina bauxite, kaolin, binders, sintering aids, and other inorganic mineral materials, as well as equipment suppliers for crushing, granulating, forming, and high-temperature kilns, while downstream it mainly serves energy storage systems, waste heat recovery devices, industrial heating furnaces, solar thermal power generation systems, and chemical and metallurgical thermal cycle equipment, with manufacturers acting as the core node connecting raw material

procurement, forming and firing processing, and product delivery to end-use engineering and equipment assembly clients.

The cost structure of high-alumina thermal storage ceramic balls is dominated by raw material costs, especially high-grade bauxite and alumina powder accounting for the largest proportion, followed by high energy consumption costs from high-temperature sintering in kilns, then processing and manufacturing costs including equipment depreciation, molding, and labor, logistics and packaging costs for bulk transportation, and a small proportion of R&D and quality inspection costs related to formula optimization and performance testing.

This report is a detailed and comprehensive analysis for global High-alumina Thermal Storage Ceramic Balls 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 High-alumina Thermal Storage Ceramic Balls market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High-alumina Thermal Storage Ceramic Balls market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High-alumina Thermal Storage Ceramic Balls market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global High-alumina Thermal Storage Ceramic Balls market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 High-alumina Thermal Storage Ceramic Balls

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 High-alumina Thermal Storage Ceramic Balls 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 Pingxiang Global New Materials Technology Co., Ltd., Jiangxi Pingxiang Tianxiang Ceramics Co., Ltd., Chengdu Changyuanshun Industrial Co., Ltd., Jiangxi Hengerwo Chemical Co., Ltd., Christy Catalytics, Jiangxi Mingde Environmental Protection Co., Ltd., Jiangxi Pingxiang Sanhe Ceramics Co., Ltd., Shandong Qitai Industrial Ceramics Co., Ltd., Zhengzhou Bosuo Insulation Materials Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

High-alumina Thermal Storage Ceramic Balls 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 segment by Type

Rolling-formed Ceramic Balls

Press-formed Ceramic Balls

Other

Market segment by Pore Structure

Dense-type Ceramic Balls

Porous-type Ceramic Balls

Other

#### Market segment by Application

Air Separation Equipment Regenerator

Regenerative Heating Furnace

Other

#### Major players covered

Pingxiang Global New Materials Technology Co., Ltd.

Jiangxi Pingxiang Tianxiang Ceramics Co., Ltd.

Chengdu Changyuanshun Industrial Co., Ltd.

Jiangxi Hengerwo Chemical Co., Ltd.

Christy Catalytics

Jiangxi Mingde Environmental Protection Co., Ltd.

Jiangxi Pingxiang Sanhe Ceramics Co., Ltd.

Shandong Qitai Industrial Ceramics Co., Ltd.

Zhengzhou Bosuo Insulation Materials Co., Ltd.

#### 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)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe High-alumina Thermal Storage Ceramic Balls product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-alumina Thermal Storage Ceramic Balls, with price, sales quantity, revenue, and global market share of High-alumina Thermal Storage Ceramic Balls from 2021 to 2026.

Chapter 3, the High-alumina Thermal Storage Ceramic Balls competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-alumina Thermal Storage Ceramic Balls 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 High-alumina Thermal Storage Ceramic Balls 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 High-alumina Thermal Storage Ceramic Balls.

Chapter 14 and 15, to describe High-alumina Thermal Storage Ceramic Balls sales channel, distributors, customers, research findings and conclusion.

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