

Global Calcium Disilicide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Calcium Disilicide market size is expected to reach \$ 805 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

Calcium Disilicide (CaSi_2) is an inorganic silicon-based alloy compound composed primarily of calcium and silicon, typically containing about 55-65% silicon and 28-35% calcium, produced through high-temperature electric furnace smelting. It is widely used as a deoxidizer, desulfurizer, inoculant, alloy additive, and reducing agent in steelmaking, cast iron production, and specialty metallurgy, while also serving as a raw material in pyrotechnics, hydrogen generation, and chemical synthesis applications due to its strong reducing properties and high reactivity with water and oxygen.

The Calcium Disilicide industry chain begins upstream with raw material suppliers of silica, lime, calcium carbide, coal, coke, and electricity, along with furnace equipment manufacturers, while the midstream segment consists of electric furnace smelting companies producing various grades and forms of Calcium Disilicide through reduction and refining technologies, and the downstream segment includes steel mills, foundries, alloy manufacturers, chemical processing companies, pyrotechnic producers, and specialty material developers that utilize Calcium Disilicide for deoxidation, desulfurization, inoculation, reducing reactions, and advanced metallurgical applications, with logistics providers and industrial distributors supporting global trade flows between major producing regions and industrial consumption centers.

Current and planned Calcium Disilicide projects are mainly concentrated in China, India, Southeast Asia, and selected Middle Eastern industrial zones, where ferroalloy and metallurgical material producers are investing in electric furnace expansion projects, energy-efficient smelting facilities, low-carbon alloy production lines, and integrated

calcium-silicon processing plants to support growing steel production demand, while several companies are also planning modernization initiatives involving automation systems, waste heat recovery equipment, renewable power integration, high-purity alloy refining capacity, and export-oriented production bases designed to strengthen supply chain stability, improve production efficiency, reduce environmental compliance risks, and capture increasing demand from steelmaking, casting, specialty alloy, and chemical manufacturing sectors in both developing and developed industrial markets.

2025 Global Market Sales Volume: 420,000 Tons. Average Global Market Price: USD 1,450 per Ton. Market Average Gross Profit Margin: 22%.

The global Calcium Disilicide market is experiencing stable growth driven primarily by continued expansion in steelmaking, foundry production, and specialty metallurgy applications, particularly in emerging industrial economies where infrastructure investment and manufacturing activity remain strong. Demand growth is closely tied to the steel industry because Calcium Disilicide is widely used as an efficient deoxidizer and desulfurizer that improves steel cleanliness, mechanical properties, and production efficiency. China remains the dominant producer and exporter due to its large ferroalloy industry, low-cost manufacturing ecosystem, extensive electric furnace capacity, and integrated raw material supply chain, while India is emerging as an important production and consumption market because of rapid industrialization and growing domestic steel demand. Europe and North America maintain relatively mature markets focused more on high-purity and specialty-grade products rather than large-scale commodity output, with increasing emphasis on energy efficiency, environmental compliance, and supply chain diversification. Southeast Asia is becoming an attractive regional growth center as local steel production capacity continues expanding and manufacturers seek alternative sourcing channels outside traditional supply hubs.

Market opportunities are increasingly associated with higher-grade metallurgical applications, green steel initiatives, and technological upgrading in ferroalloy production processes. Rising demand for cleaner steel production and improved metallurgical performance is encouraging steelmakers to adopt higher-quality alloy additives, which benefits producers capable of maintaining stable composition and low impurity levels. In addition, high-purity Calcium Disilicide materials may find expanding opportunities in specialty chemicals, advanced reducing agents, and niche electronic material applications. However, the market also faces several risks, including volatility in electricity prices, fluctuating costs of silicon metal and calcium-based raw materials, environmental policy tightening, and overcapacity pressures in certain producing

regions. Because production is highly energy intensive, profitability is sensitive to power supply stability and carbon-emission regulations, especially in countries implementing stricter industrial decarbonization policies. Trade restrictions, export tariffs, and global economic slowdowns can further affect international demand patterns and pricing stability.

From a competitive perspective, the Calcium Disilicide industry remains moderately fragmented, with a large number of regional ferroalloy producers competing on production cost, energy efficiency, product purity, and long-term customer relationships with steel manufacturers. Chinese suppliers currently dominate international exports due to scale advantages and pricing competitiveness, though some global buyers are gradually diversifying procurement strategies to reduce supply chain concentration risks. Larger producers increasingly invest in automation, continuous smelting systems, waste heat recovery, and environmentally compliant production facilities to improve competitiveness and satisfy stricter environmental standards. Product differentiation is becoming more important as downstream customers demand tighter chemical specifications, better particle size consistency, and more reliable delivery schedules.

In the coming years, the industry is expected to move toward higher operational consolidation, cleaner production technologies, and greater integration with low-carbon steelmaking supply chains, while market growth will likely remain supported by ongoing infrastructure development, industrial manufacturing expansion, and long-term demand for high-performance metallurgical additives across global steel and alloy industries.

This report studies the global Calcium Disilicide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Calcium Disilicide total production and demand, 2021-2032, (Kilotons)

Global Calcium Disilicide total production value, 2021-2032, (USD Million)

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

Global Calcium Disilicide consumption by region & country, CAGR, 2021-2032 &

(Kilotons)

U.S. VS China: Calcium Disilicide domestic production, consumption, key domestic manufacturers and share

Global Calcium Disilicide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Calcium Disilicide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Calcium Disilicide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Calcium Disilicide 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 STREM, Island Pyrochemical Industries (IPI), Anyang Lishi Industrial Co., Ltd, Shanghai Greenearth Chemicals Co.,Ltd, 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 Calcium Disilicide 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 Calcium Disilicide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Calcium Disilicide Market, Segmentation by Type:

95% Purity

Global Calcium Disilicide Market, Segmentation by Silicon Content Type:

Si content: 50%

Global Calcium Disilicide Market, Segmentation by Manufacturing Process Type:

Carbothermic Reduction Process

Electric Arc Furnace Process

Continuous Casting Process

Others

Global Calcium Disilicide Market, Segmentation by Application:

Steel

Foundries

Metallurgical

Welding Material

Others

Companies Profiled:

STREM

Island Pyrochemical Industries (IPI)

Anyang Lishi Industrial Co., Ltd

Shanghai Greenearth Chemicals Co.,Ltd

Key Questions Answered:

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

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