

Global Metallurgical Grade Silicon 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 Metallurgical Grade Silicon market size was valued at US\$ 9552 million in 2025 and is forecast to a readjusted size of US\$ 13973 million by 2032 with a CAGR of 5.6% during review period.

Metallurgical Grade Silicon is the primary industrial form of elemental silicon, typically containing about 98–99.5% silicon, produced by reducing high-purity quartz (SiO_2) with carbon sources such as coal, coke, or wood chips in submerged-arc electric furnaces at temperatures above $1,900^\circ\text{C}$. The supply chain begins upstream with quartz mining and beneficiation, along with the supply of carbon reductants and large amounts of electricity (silicon smelting is highly energy-intensive). In the midstream stage, MG-Si is produced through carbothermic reduction in silicon smelters, then cast, crushed, and graded into different lump or powder specifications. Downstream, metallurgical grade silicon serves as the key feedstock for multiple value chains, including chemical-grade silicon for silicones and silanes, polysilicon production for solar photovoltaic and semiconductor industries, and aluminum-silicon alloys used in automotive casting and metallurgy, making MG-Si a foundational material bridging the metallurgical, chemical, and electronics industries. In 2025, global Metallurgical Grade Silicon output was about 3.4 million tons with 4.8 million tons of capacity, average prices of USD 2,600 – 3,400 per ton, and gross margins around 24%.

This report is a detailed and comprehensive analysis for global Metallurgical Grade Silicon 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 Metallurgical Grade Silicon market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

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

Global Metallurgical Grade Silicon 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 Metallurgical Grade Silicon 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 Metallurgical Grade Silicon
- 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 Metallurgical Grade Silicon 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 Tongwei (China), GCL Technology (China), Daqo New Energy (China), Xinte Energy (China), Asia Silicon (China), East Hope Group (China), Tokuyama (Japan), OCI Holdings (South Korea), Hemlock Semiconductor (USA), Wacker Chemie (Germany), etc.

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

Market Segmentation

Metallurgical Grade Silicon 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

Standard Grade Silicon (98–99%)

High-Purity Grade Silicon (>99%)

Market segment by Impurity Profile

Low-Iron Silicon

Low-Phosphorus Silicon

Low-Boron Silicon

Market segment by Application

Aluminum Industry

Chemical Industry

Solar Photovoltaic Industry

Semiconductor Industry

Others

Major players covered

Tongwei (China)

GCL Technology (China)

Daqo New Energy (China)

Xinte Energy (China)

Asia Silicon (China)

East Hope Group (China)

Tokuyama (Japan)

OCI Holdings (South Korea)

Hemlock Semiconductor (USA)

Wacker Chemie (Germany)

REC Silicon (Norway)

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 Metallurgical Grade Silicon product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Metallurgical Grade Silicon, with price, sales quantity, revenue, and global market share of Metallurgical Grade Silicon from 2021 to 2026.

Chapter 3, the Metallurgical Grade Silicon competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Metallurgical Grade Silicon 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 Metallurgical Grade Silicon 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 Metallurgical Grade Silicon.

Chapter 14 and 15, to describe Metallurgical Grade Silicon sales channel, distributors, customers, research findings and conclusion.

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