

Global Quartz Sand Fracturing Proppant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quartz Sand Fracturing Proppant market size is expected to reach \$ 5277 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

Quartz sand fracturing proppant is a natural sand-based proppant manufactured from high-purity quartz sand, quartz sandstone, or quartzite sand. During hydraulic fracturing, it is injected into the fractures to prop them open, thereby enabling the continuous flow of fluids?such as oil, gas, and condensate?into the wellbore.

The core upstream raw material is natural quartz sand, primarily sourced from high-purity quartz sandstone, aeolian sand, fluvial or lacustrine deposits, or regional sand sources. Key quality parameters include SiO₂ content, impurity mineral content, particle roundness and sphericity, particle size distribution (uniformity), and crush resistance. Downstream applications primarily involve fracturing operations for shale oil and gas, tight oil and gas, low-permeability reservoirs, and coalbed methane. Demand is driven by factors such as drilling and completion activity, horizontal well length, the number of fracturing stages, proppant strength requirements, and logistics costs associated with local sand sources.

In 2025, the global sales volume of quartz sand proppants is approximately 90 million tons, with an average product price of around \$45 per ton; the gross profit margin for major industry producers ranges from approximately 15% to 30%.

Demand for quartz sand fracturing proppants is primarily driven by the volume of fracturing operations in oil and gas wells; the more active the development of shale oil, shale gas, and tight oil and gas, the greater the consumption of sand and the resulting

market demand. Its advantages?low cost, high consumption volume, and stable supply?make it particularly well-suited for large-scale horizontal well fracturing. Overall, while quartz sand proppants are a fundamental consumable in oil and gas fracturing and are unlikely to become a high-price, high-margin segment, they will continue to see substantial demand driven by the ongoing development of unconventional resources, increased sand usage per well, and the substitution of local sand sources. The industry will continue to evolve toward low costs, regionalized supply, and integrated logistics.

This report studies the global Quartz Sand Fracturing Proppant production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Quartz Sand Fracturing Proppant total production and demand, 2021-2032, (Kilotons)

Global Quartz Sand Fracturing Proppant total production value, 2021-2032, (USD Million)

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

Global Quartz Sand Fracturing Proppant consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Quartz Sand Fracturing Proppant domestic production, consumption, key domestic manufacturers and share

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

Global Quartz Sand Fracturing Proppant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Quartz Sand Fracturing Proppant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Quartz Sand Fracturing Proppant 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 Atlas Energy Solutions, Iron Oak Energy Solutions, U.S. Silica Holdings, Badger Mining Corporation, Smart Sand, Source Energy Services, Pattison Company, Chongqing Changjiang River Moulding Material (Group), Panzhihua Bing Yang Technology, Henan Tianxiang New Materials, 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 Quartz Sand Fracturing Proppant 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 Quartz Sand Fracturing Proppant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quartz Sand Fracturing Proppant Market, Segmentation by Type:

Fine Sand (0.25mm-0.10mm)

Medium Sand (0.5mm-0.25mm)

Coarse Sand (1~2mm)

Others

Global Quartz Sand Fracturing Proppant Market, Segmentation by Material:

Ordinary Quartz Sand

Resin-Coated Quartz Sand

Global Quartz Sand Fracturing Proppant Market, Segmentation by Closure Stress Rating:

2K

4K

5K

6K

Other

Global Quartz Sand Fracturing Proppant Market, Segmentation by Application:

Oil and Gas Extraction

Water Resources Development

Geothermal Energy Mining

Construction Project

Others

Companies Profiled:

Atlas Energy Solutions

Iron Oak Energy Solutions

U.S. Silica Holdings

Badger Mining Corporation

Smart Sand

Source Energy Services

Pattison Company

Chongqing Changjiang River Moulding Material (Group)

Panzhuhua Bing Yang Technology

Henan Tianxiang New Materials

Key Questions Answered:

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

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