

Global High Silica Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Silica Fiber market size is expected to reach \$ 652 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

In 2025, global high silica fiber production reached approximately 21020 tons, the average price is 22 usd/kg. High silica fiber is a special type of glass fiber with high-purity silica as its main component. It is made by acid leaching of ordinary soda lime glass fiber to remove soluble oxides, followed by high-temperature sintering. It has the characteristics of high temperature resistance, low thermal conductivity, good chemical stability, and strong thermal shock resistance. It can maintain good mechanical properties in high-temperature environments and is often used in high-temperature filtration, thermal insulation lining, fireproof materials, aerospace thermal protection, and high-temperature insulation of electronic appliances.

Market Concentration and Major Players:

Internationally, the high-silica fiber market is highly concentrated, mainly in developed countries in Europe and America. Large manufacturers include Histex and JSC NPO Stekloplastik. Domestically, the high-silica fiber market still has significant room for development.

Manufacturing Process and Market Trends:

Manufacturing typically involves using sodium borosilicate glass as raw material, melting and drawing it at high temperatures to produce primary fibers or fabrics. These fibers are then immersed in acid for leaching to dissolve components such as sodium borate, enriching silica to over 96% and forming a microporous framework. After

thorough washing to remove residual acid, the fibers are sintered in a kiln at 600-800 degrees Celsius to close the micropores and densify the structure. Finally, surface coating or further processing can be applied as needed to produce yarns, tapes, and other products. Driven by high-end demands such as aerospace thermal protection, fire prevention for new energy batteries, and environmental high-temperature filtration, the market is gradually breaking through foreign technical barriers and achieving large-scale domestic supply. In the future, the focus will be on optimizing green processes such as all-electric melting and waste acid regeneration to reduce costs and increase efficiency. At the same time, it will expand towards high-purity, high-strength, and multi-functional composites to adapt to more stringent heat insulation and insulation scenarios.

This report studies the global High Silica Fiber production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Silica Fiber total production and demand, 2021-2032, (Tons)

Global High Silica Fiber total production value, 2021-2032, (USD Million)

Global High Silica Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Silica Fiber consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Silica Fiber domestic production, consumption, key domestic manufacturers and share

Global High Silica Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Silica Fiber production by Silica Content, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Silica Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Silica Fiber 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 Hitex (USA), JSC NPO Stekloplastik (Russia), JSC Polotsk-Steklovolokno (Belarus), Mid Mountain Materials Incorporated (USA), Valmiera Group (Latvia), Tex Tech Industries (USA), Auburn Manufacturing (USA), Newtex (USA), Davlyn Group (USA), McAllister Mills (USA), 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 High Silica Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Silica Content, 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 High Silica Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Silica Fiber Market, Segmentation by Silica Content:

Silica Content
Silica Content ? 96%

Global High Silica Fiber Market, Segmentation by Temperature:

1000?

1100?

1200?

1400?

Others

Global High Silica Fiber Market, Segmentation by Fabric:

Plain Weave Fabric

Twill Fabric

Satin Fabric

Others

Global High Silica Fiber Market, Segmentation by Application:

Furnaces and Refractories Insulation

Gasket Production

Protective Clothing

Oil Refining Liners

Others

Companies Profiled:

Hitex (USA)

JSC NPO Stekloplastik (Russia)

JSC Polotsk-Steklovolokno (Belarus)

Mid Mountain Materials Incorporated (USA)

Valmiera Group (Latvia)

Tex Tech Industries (USA)

Auburn Manufacturing (USA)

Newtex (USA)

Davlyn Group (USA)

McAllister Mills (USA)

Lewco Specialty Products (USA)

THS Textiles (UK)

Lih Feng Jiing (Taiwan, China)

Urja Products (India)

RNG Performance Materials (India)

Anhui Ningguo Hantai New Materials(China)

Huatek New Material(China)

Jiangsu Jiuding New Material(China)

Key Questions Answered:

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

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