

Global Bio-based Silica for Green Tire Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Bio-based Silica for Green Tire market size is expected to reach \$ 308 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

In 2025, global production of silica for green and high-performance tires reached 78,000 tons, with an average selling price of \$2,140 per ton. Bio-based silica for green tires refers to tire-grade silica produced using agricultural waste or biomass ash?such as rice husk ash, wheat straw ash, bagasse ash, and corn cob ash?as the silicon source. It is manufactured through a series of processes including purification, sodium silicate preparation, precipitation reactions, washing, drying, and granulation, and is primarily utilized in the tread compounds of green tires. Compared to traditional precipitated silica produced via routes involving quartz sand, soda ash, and sulfuric acid, this product places greater emphasis on the use of renewable raw materials, low-carbon production, the resource utilization of agricultural waste, and the enhancement of low rolling resistance performance in tires. The upstream sector primarily comprises agricultural wastes?such as rice husks, rice husk ash, wheat straw ash, and bagasse ash?as well as auxiliary inputs including alkaline solutions, acids, steam, electricity, filtration materials, and packaging materials; the midstream sector consists of bio-based silica manufacturers. A typical manufacturing process involves extracting silicates from rice husk ash, followed by precipitation reactions to produce tire-grade, highly dispersible silica. The downstream sector consists mainly of tire manufacturers and rubber compounding enterprises, while end-market demand is driven by new energy vehicles (NEVs), fuel-efficient passenger cars, the replacement tire market, and automakers with stringent requirements for low-carbon supply chains. Gross margins range from approximately 20% to 45%.

This report studies the global Bio-based Silica for Green Tire production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio-based Silica for Green Tire total production and demand, 2021-2032, (Kilotons)

Global Bio-based Silica for Green Tire total production value, 2021-2032, (USD Million)

Global Bio-based Silica for Green Tire production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Bio-based Silica for Green Tire consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Bio-based Silica for Green Tire domestic production, consumption, key domestic manufacturers and share

Global Bio-based Silica for Green Tire production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Bio-based Silica for Green Tire production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Bio-based Silica for Green Tire production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Bio-based Silica for Green Tire 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 SRP, Evonik, Green Silica, BSB Nanotech, Brisil, EKASIL, Solvay, PPG Industries, Purasil, Madhu Silica, 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 Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bio-based Silica for Green Tire Market, Segmentation by Type:

Powder

Granule

Micro-bead

Global Bio-based Silica for Green Tire Market, Segmentation by Raw Material Source:

Rice Husk Ash

Wheat Straw Ash

Sugarcane Bagasse Ash

Corn Cob Ash

Other Agricultural Wastes

Global Bio-based Silica for Green Tire Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

SRP

Evonik

Green Silica

BSB Nanotech

Brisil

EKASIL

Solvay

PPG Industries

Purasil

Madhu Silica

Milin Environmental

Tata Chemicals

Quechen Silicon Chemical

JSJ

JiangXi Jinkang Advanced Material Sci-Tech

Anhui Evosil Nanomaterials Technology

Hengcheng Silica

Key Questions Answered:

1. How big is the global Bio-based Silica for Green Tire market?
2. What is the demand of the global Bio-based Silica for Green Tire market?
3. What is the year over year growth of the global Bio-based Silica for Green Tire market?
4. What is the production and production value of the global Bio-based Silica for Green Tire market?
5. Who are the key producers in the global Bio-based Silica for Green Tire market?
6. What are the growth factors driving the market demand?

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