

Global Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire market size was valued at US\$ 172 million in 2025 and is forecast to a readjusted size of US\$ 308 million by 2032 with a CAGR of 8.9% during review period.

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 is a detailed and comprehensive analysis for global Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Silica for Green Tire market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire

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 Bio-based Silica for Green Tire 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 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.

Market Segmentation

Bio-based Silica for Green Tire 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

Powder

Granule

Micro-bead

Market segment by Raw Material Source

Rice Husk Ash

Wheat Straw Ash

Sugarcane Bagasse Ash

Corn Cob Ash

Other Agricultural Wastes

Market segment by Application

Passenger Car

Commercial Vehicle

Major players covered

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

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 Bio-based Silica for Green Tire product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Silica for Green Tire, with price, sales quantity, revenue, and global market share of Bio-based Silica for Green Tire from 2021 to 2026.

Chapter 3, the Bio-based Silica for Green Tire competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire 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 Bio-based Silica for Green Tire.

Chapter 14 and 15, to describe Bio-based Silica for Green Tire sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Bio-based Silica for Green Tire Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Powder

1.3.3 Granule

1.3.4 Micro-bead

1.4 Market Analysis by Raw Material Source

1.4.1 Overview: Global Bio-based Silica for Green Tire Consumption Value by Raw Material Source: 2021 Versus 2025 Versus 2032

1.4.2 Rice Husk Ash

1.4.3 Wheat Straw Ash

1.4.4 Sugarcane Bagasse Ash

1.4.5 Corn Cob Ash

1.4.6 Other Agricultural Wastes

1.5 Market Analysis by Application

1.5.1 Overview: Global Bio-based Silica for Green Tire Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Passenger Car

1.5.3 Commercial Vehicle

1.6 Global Bio-based Silica for Green Tire Market Size & Forecast

1.6.1 Global Bio-based Silica for Green Tire Consumption Value (2021 & 2025 & 2032)

1.6.2 Global Bio-based Silica for Green Tire Sales Quantity (2021-2032)

1.6.3 Global Bio-based Silica for Green Tire Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 SRP

2.1.1 SRP Details

2.1.2 SRP Major Business

2.1.3 SRP Bio-based Silica for Green Tire Product and Services

2.1.4 SRP Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 SRP Recent Developments/Updates

2.2 Evonik

2.2.1 Evonik Details

2.2.2 Evonik Major Business

2.2.3 Evonik Bio-based Silica for Green Tire Product and Services

2.2.4 Evonik Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Evonik Recent Developments/Updates

2.3 Green Silica

2.3.1 Green Silica Details

2.3.2 Green Silica Major Business

2.3.3 Green Silica Bio-based Silica for Green Tire Product and Services

2.3.4 Green Silica Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Green Silica Recent Developments/Updates

2.4 BSB Nanotech

2.4.1 BSB Nanotech Details

2.4.2 BSB Nanotech Major Business

2.4.3 BSB Nanotech Bio-based Silica for Green Tire Product and Services

2.4.4 BSB Nanotech Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 BSB Nanotech Recent Developments/Updates

2.5 Brisil

2.5.1 Brisil Details

2.5.2 Brisil Major Business

2.5.3 Brisil Bio-based Silica for Green Tire Product and Services

2.5.4 Brisil Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Brisil Recent Developments/Updates

2.6 EKASIL

2.6.1 EKASIL Details

2.6.2 EKASIL Major Business

2.6.3 EKASIL Bio-based Silica for Green Tire Product and Services

2.6.4 EKASIL Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 EKASIL Recent Developments/Updates

2.7 Solvay

2.7.1 Solvay Details

2.7.2 Solvay Major Business

2.7.3 Solvay Bio-based Silica for Green Tire Product and Services

2.7.4 Solvay Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Solvay Recent Developments/Updates

2.8 PPG Industries

2.8.1 PPG Industries Details

2.8.2 PPG Industries Major Business

2.8.3 PPG Industries Bio-based Silica for Green Tire Product and Services

2.8.4 PPG Industries Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 PPG Industries Recent Developments/Updates

2.9 Purasil

2.9.1 Purasil Details

2.9.2 Purasil Major Business

2.9.3 Purasil Bio-based Silica for Green Tire Product and Services

2.9.4 Purasil Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Purasil Recent Developments/Updates

2.10 Madhu Silica

2.10.1 Madhu Silica Details

2.10.2 Madhu Silica Major Business

2.10.3 Madhu Silica Bio-based Silica for Green Tire Product and Services

2.10.4 Madhu Silica Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Madhu Silica Recent Developments/Updates

2.11 Milin Environmental

2.11.1 Milin Environmental Details

2.11.2 Milin Environmental Major Business

2.11.3 Milin Environmental Bio-based Silica for Green Tire Product and Services

2.11.4 Milin Environmental Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Milin Environmental Recent Developments/Updates

2.12 Tata Chemicals

2.12.1 Tata Chemicals Details

2.12.2 Tata Chemicals Major Business

2.12.3 Tata Chemicals Bio-based Silica for Green Tire Product and Services

2.12.4 Tata Chemicals Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Tata Chemicals Recent Developments/Updates

2.13 Quechen Silicon Chemical

- 2.13.1 Quechen Silicon Chemical Details
- 2.13.2 Quechen Silicon Chemical Major Business
- 2.13.3 Quechen Silicon Chemical Bio-based Silica for Green Tire Product and Services
- 2.13.4 Quechen Silicon Chemical Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.13.5 Quechen Silicon Chemical Recent Developments/Updates
- 2.14 JSJ
 - 2.14.1 JSJ Details
 - 2.14.2 JSJ Major Business
 - 2.14.3 JSJ Bio-based Silica for Green Tire Product and Services
 - 2.14.4 JSJ Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 JSJ Recent Developments/Updates
- 2.15 JiangXi Jinkang Advanced Material Sci-Tech
 - 2.15.1 JiangXi Jinkang Advanced Material Sci-Tech Details
 - 2.15.2 JiangXi Jinkang Advanced Material Sci-Tech Major Business
 - 2.15.3 JiangXi Jinkang Advanced Material Sci-Tech Bio-based Silica for Green Tire Product and Services
 - 2.15.4 JiangXi Jinkang Advanced Material Sci-Tech Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 JiangXi Jinkang Advanced Material Sci-Tech Recent Developments/Updates
- 2.16 Anhui Evosil Nanomaterials Technology
 - 2.16.1 Anhui Evosil Nanomaterials Technology Details
 - 2.16.2 Anhui Evosil Nanomaterials Technology Major Business
 - 2.16.3 Anhui Evosil Nanomaterials Technology Bio-based Silica for Green Tire Product and Services
 - 2.16.4 Anhui Evosil Nanomaterials Technology Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Anhui Evosil Nanomaterials Technology Recent Developments/Updates
- 2.17 Hengcheng Silica
 - 2.17.1 Hengcheng Silica Details
 - 2.17.2 Hengcheng Silica Major Business
 - 2.17.3 Hengcheng Silica Bio-based Silica for Green Tire Product and Services
 - 2.17.4 Hengcheng Silica Bio-based Silica for Green Tire Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Hengcheng Silica Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BIO-BASED SILICA FOR GREEN TIRE BY

MANUFACTURER

- 3.1 Global Bio-based Silica for Green Tire Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Bio-based Silica for Green Tire Revenue by Manufacturer (2021-2026)
- 3.3 Global Bio-based Silica for Green Tire Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Bio-based Silica for Green Tire by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Bio-based Silica for Green Tire Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Bio-based Silica for Green Tire Manufacturer Market Share in 2025
- 3.5 Bio-based Silica for Green Tire Market: Overall Company Footprint Analysis
 - 3.5.1 Bio-based Silica for Green Tire Market: Region Footprint
 - 3.5.2 Bio-based Silica for Green Tire Market: Company Product Type Footprint
 - 3.5.3 Bio-based Silica for Green Tire Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Bio-based Silica for Green Tire Market Size by Region
 - 4.1.1 Global Bio-based Silica for Green Tire Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Bio-based Silica for Green Tire Consumption Value by Region (2021-2032)
 - 4.1.3 Global Bio-based Silica for Green Tire Average Price by Region (2021-2032)
- 4.2 North America Bio-based Silica for Green Tire Consumption Value (2021-2032)
- 4.3 Europe Bio-based Silica for Green Tire Consumption Value (2021-2032)
- 4.4 Asia-Pacific Bio-based Silica for Green Tire Consumption Value (2021-2032)
- 4.5 South America Bio-based Silica for Green Tire Consumption Value (2021-2032)
- 4.6 Middle East & Africa Bio-based Silica for Green Tire Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Bio-based Silica for Green Tire Sales Quantity by Type (2021-2032)
- 5.2 Global Bio-based Silica for Green Tire Consumption Value by Type (2021-2032)
- 5.3 Global Bio-based Silica for Green Tire Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Bio-based Silica for Green Tire Sales Quantity by Application (2021-2032)
- 6.2 Global Bio-based Silica for Green Tire Consumption Value by Application (2021-2032)
- 6.3 Global Bio-based Silica for Green Tire Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Bio-based Silica for Green Tire Sales Quantity by Type (2021-2032)
- 7.2 North America Bio-based Silica for Green Tire Sales Quantity by Application (2021-2032)
- 7.3 North America Bio-based Silica for Green Tire Market Size by Country
 - 7.3.1 North America Bio-based Silica for Green Tire Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Bio-based Silica for Green Tire Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Bio-based Silica for Green Tire Sales Quantity by Type (2021-2032)
- 8.2 Europe Bio-based Silica for Green Tire Sales Quantity by Application (2021-2032)
- 8.3 Europe Bio-based Silica for Green Tire Market Size by Country
 - 8.3.1 Europe Bio-based Silica for Green Tire Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Bio-based Silica for Green Tire Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Bio-based Silica for Green Tire Market Size by Region

9.3.1 Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Bio-based Silica for Green Tire Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Bio-based Silica for Green Tire Sales Quantity by Type (2021-2032)

10.2 South America Bio-based Silica for Green Tire Sales Quantity by Application (2021-2032)

10.3 South America Bio-based Silica for Green Tire Market Size by Country

10.3.1 South America Bio-based Silica for Green Tire Sales Quantity by Country (2021-2032)

10.3.2 South America Bio-based Silica for Green Tire Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Bio-based Silica for Green Tire Market Size by Country

11.3.1 Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Bio-based Silica for Green Tire Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Bio-based Silica for Green Tire Market Drivers
- 12.2 Bio-based Silica for Green Tire Market Restraints
- 12.3 Bio-based Silica for Green Tire Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Bio-based Silica for Green Tire and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Bio-based Silica for Green Tire
- 13.3 Bio-based Silica for Green Tire Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Bio-based Silica for Green Tire Typical Distributors
- 14.3 Bio-based Silica for Green Tire Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Bio-based Silica for Green Tire Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Bio-based Silica for Green Tire Consumption Value by Raw Material Source, (USD Million), 2021 & 2025 & 2032

Table 3. Global Bio-based Silica for Green Tire Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. SRP Basic Information, Manufacturing Base and Competitors

Table 5. SRP Major Business

Table 6. SRP Bio-based Silica for Green Tire Product and Services

Table 7. SRP Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. SRP Recent Developments/Updates

Table 9. Evonik Basic Information, Manufacturing Base and Competitors

Table 10. Evonik Major Business

Table 11. Evonik Bio-based Silica for Green Tire Product and Services

Table 12. Evonik Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Evonik Recent Developments/Updates

Table 14. Green Silica Basic Information, Manufacturing Base and Competitors

Table 15. Green Silica Major Business

Table 16. Green Silica Bio-based Silica for Green Tire Product and Services

Table 17. Green Silica Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Green Silica Recent Developments/Updates

Table 19. BSB Nanotech Basic Information, Manufacturing Base and Competitors

Table 20. BSB Nanotech Major Business

Table 21. BSB Nanotech Bio-based Silica for Green Tire Product and Services

Table 22. BSB Nanotech Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. BSB Nanotech Recent Developments/Updates

Table 24. Brisil Basic Information, Manufacturing Base and Competitors

Table 25. Brisil Major Business

Table 26. Brisil Bio-based Silica for Green Tire Product and Services

Table 27. Brisil Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Brisil Recent Developments/Updates

Table 29. EKASIL Basic Information, Manufacturing Base and Competitors

Table 30. EKASIL Major Business

Table 31. EKASIL Bio-based Silica for Green Tire Product and Services

Table 32. EKASIL Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. EKASIL Recent Developments/Updates

Table 34. Solvay Basic Information, Manufacturing Base and Competitors

Table 35. Solvay Major Business

Table 36. Solvay Bio-based Silica for Green Tire Product and Services

Table 37. Solvay Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Solvay Recent Developments/Updates

Table 39. PPG Industries Basic Information, Manufacturing Base and Competitors

Table 40. PPG Industries Major Business

Table 41. PPG Industries Bio-based Silica for Green Tire Product and Services

Table 42. PPG Industries Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. PPG Industries Recent Developments/Updates

Table 44. Purasil Basic Information, Manufacturing Base and Competitors

Table 45. Purasil Major Business

Table 46. Purasil Bio-based Silica for Green Tire Product and Services

Table 47. Purasil Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Purasil Recent Developments/Updates

Table 49. Madhu Silica Basic Information, Manufacturing Base and Competitors

Table 50. Madhu Silica Major Business

Table 51. Madhu Silica Bio-based Silica for Green Tire Product and Services

Table 52. Madhu Silica Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Madhu Silica Recent Developments/Updates

Table 54. Milin Environmental Basic Information, Manufacturing Base and Competitors

Table 55. Milin Environmental Major Business

Table 56. Milin Environmental Bio-based Silica for Green Tire Product and Services

Table 57. Milin Environmental Bio-based Silica for Green Tire Sales Quantity (Kilotons),

Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Milin Environmental Recent Developments/Updates

Table 59. Tata Chemicals Basic Information, Manufacturing Base and Competitors

Table 60. Tata Chemicals Major Business

Table 61. Tata Chemicals Bio-based Silica for Green Tire Product and Services

Table 62. Tata Chemicals Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. Tata Chemicals Recent Developments/Updates

Table 64. Quechen Silicon Chemical Basic Information, Manufacturing Base and Competitors

Table 65. Quechen Silicon Chemical Major Business

Table 66. Quechen Silicon Chemical Bio-based Silica for Green Tire Product and Services

Table 67. Quechen Silicon Chemical Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 68. Quechen Silicon Chemical Recent Developments/Updates

Table 69. JSJ Basic Information, Manufacturing Base and Competitors

Table 70. JSJ Major Business

Table 71. JSJ Bio-based Silica for Green Tire Product and Services

Table 72. JSJ Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 73. JSJ Recent Developments/Updates

Table 74. JiangXi Jinkang Advanced Material Sci-Tech Basic Information, Manufacturing Base and Competitors

Table 75. JiangXi Jinkang Advanced Material Sci-Tech Major Business

Table 76. JiangXi Jinkang Advanced Material Sci-Tech Bio-based Silica for Green Tire Product and Services

Table 77. JiangXi Jinkang Advanced Material Sci-Tech Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. JiangXi Jinkang Advanced Material Sci-Tech Recent Developments/Updates

Table 79. Anhui Evosil Nanomaterials Technology Basic Information, Manufacturing Base and Competitors

Table 80. Anhui Evosil Nanomaterials Technology Major Business

Table 81. Anhui Evosil Nanomaterials Technology Bio-based Silica for Green Tire Product and Services

Table 82. Anhui Evosil Nanomaterials Technology Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Anhui Evosil Nanomaterials Technology Recent Developments/Updates

Table 84. Hengcheng Silica Basic Information, Manufacturing Base and Competitors

Table 85. Hengcheng Silica Major Business

Table 86. Hengcheng Silica Bio-based Silica for Green Tire Product and Services

Table 87. Hengcheng Silica Bio-based Silica for Green Tire Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 88. Hengcheng Silica Recent Developments/Updates

Table 89. Global Bio-based Silica for Green Tire Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 90. Global Bio-based Silica for Green Tire Revenue by Manufacturer (2021-2026) & (USD Million)

Table 91. Global Bio-based Silica for Green Tire Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 92. Market Position of Manufacturers in Bio-based Silica for Green Tire, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 93. Head Office and Bio-based Silica for Green Tire Production Site of Key Manufacturer

Table 94. Bio-based Silica for Green Tire Market: Company Product Type Footprint

Table 95. Bio-based Silica for Green Tire Market: Company Product Application Footprint

Table 96. Bio-based Silica for Green Tire New Market Entrants and Barriers to Market Entry

Table 97. Bio-based Silica for Green Tire Mergers, Acquisition, Agreements, and Collaborations

Table 98. Global Bio-based Silica for Green Tire Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 99. Global Bio-based Silica for Green Tire Sales Quantity by Region (2021-2026) & (Kilotons)

Table 100. Global Bio-based Silica for Green Tire Sales Quantity by Region (2027-2032) & (Kilotons)

Table 101. Global Bio-based Silica for Green Tire Consumption Value by Region (2021-2026) & (USD Million)

Table 102. Global Bio-based Silica for Green Tire Consumption Value by Region (2027-2032) & (USD Million)

Table 103. Global Bio-based Silica for Green Tire Average Price by Region (2021-2026)

& (US\$/Ton)

Table 104. Global Bio-based Silica for Green Tire Average Price by Region (2027-2032)

& (US\$/Ton)

Table 105. Global Bio-based Silica for Green Tire Sales Quantity by Type (2021-2026)

& (Kilotons)

Table 106. Global Bio-based Silica for Green Tire Sales Quantity by Type (2027-2032)

& (Kilotons)

Table 107. Global Bio-based Silica for Green Tire Consumption Value by Type
(2021-2026) & (USD Million)

Table 108. Global Bio-based Silica for Green Tire Consumption Value by Type
(2027-2032) & (USD Million)

Table 109. Global Bio-based Silica for Green Tire Average Price by Type (2021-2026) &
(US\$/Ton)

Table 110. Global Bio-based Silica for Green Tire Average Price by Type (2027-2032) &
(US\$/Ton)

Table 111. Global Bio-based Silica for Green Tire Sales Quantity by Application
(2021-2026) & (Kilotons)

Table 112. Global Bio-based Silica for Green Tire Sales Quantity by Application
(2027-2032) & (Kilotons)

Table 113. Global Bio-based Silica for Green Tire Consumption Value by Application
(2021-2026) & (USD Million)

Table 114. Global Bio-based Silica for Green Tire Consumption Value by Application
(2027-2032) & (USD Million)

Table 115. Global Bio-based Silica for Green Tire Average Price by Application
(2021-2026) & (US\$/Ton)

Table 116. Global Bio-based Silica for Green Tire Average Price by Application
(2027-2032) & (US\$/Ton)

Table 117. North America Bio-based Silica for Green Tire Sales Quantity by Type
(2021-2026) & (Kilotons)

Table 118. North America Bio-based Silica for Green Tire Sales Quantity by Type
(2027-2032) & (Kilotons)

Table 119. North America Bio-based Silica for Green Tire Sales Quantity by Application
(2021-2026) & (Kilotons)

Table 120. North America Bio-based Silica for Green Tire Sales Quantity by Application
(2027-2032) & (Kilotons)

Table 121. North America Bio-based Silica for Green Tire Sales Quantity by Country
(2021-2026) & (Kilotons)

Table 122. North America Bio-based Silica for Green Tire Sales Quantity by Country
(2027-2032) & (Kilotons)

Table 123. North America Bio-based Silica for Green Tire Consumption Value by Country (2021-2026) & (USD Million)

Table 124. North America Bio-based Silica for Green Tire Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Europe Bio-based Silica for Green Tire Sales Quantity by Type (2021-2026) & (Kilotons)

Table 126. Europe Bio-based Silica for Green Tire Sales Quantity by Type (2027-2032) & (Kilotons)

Table 127. Europe Bio-based Silica for Green Tire Sales Quantity by Application (2021-2026) & (Kilotons)

Table 128. Europe Bio-based Silica for Green Tire Sales Quantity by Application (2027-2032) & (Kilotons)

Table 129. Europe Bio-based Silica for Green Tire Sales Quantity by Country (2021-2026) & (Kilotons)

Table 130. Europe Bio-based Silica for Green Tire Sales Quantity by Country (2027-2032) & (Kilotons)

Table 131. Europe Bio-based Silica for Green Tire Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Europe Bio-based Silica for Green Tire Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Type (2021-2026) & (Kilotons)

Table 134. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Type (2027-2032) & (Kilotons)

Table 135. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Application (2021-2026) & (Kilotons)

Table 136. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Application (2027-2032) & (Kilotons)

Table 137. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Region (2021-2026) & (Kilotons)

Table 138. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity by Region (2027-2032) & (Kilotons)

Table 139. Asia-Pacific Bio-based Silica for Green Tire Consumption Value by Region (2021-2026) & (USD Million)

Table 140. Asia-Pacific Bio-based Silica for Green Tire Consumption Value by Region (2027-2032) & (USD Million)

Table 141. South America Bio-based Silica for Green Tire Sales Quantity by Type (2021-2026) & (Kilotons)

Table 142. South America Bio-based Silica for Green Tire Sales Quantity by Type

(2027-2032) & (Kilotons)

Table 143. South America Bio-based Silica for Green Tire Sales Quantity by Application (2021-2026) & (Kilotons)

Table 144. South America Bio-based Silica for Green Tire Sales Quantity by Application (2027-2032) & (Kilotons)

Table 145. South America Bio-based Silica for Green Tire Sales Quantity by Country (2021-2026) & (Kilotons)

Table 146. South America Bio-based Silica for Green Tire Sales Quantity by Country (2027-2032) & (Kilotons)

Table 147. South America Bio-based Silica for Green Tire Consumption Value by Country (2021-2026) & (USD Million)

Table 148. South America Bio-based Silica for Green Tire Consumption Value by Country (2027-2032) & (USD Million)

Table 149. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Type (2021-2026) & (Kilotons)

Table 150. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Type (2027-2032) & (Kilotons)

Table 151. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Application (2021-2026) & (Kilotons)

Table 152. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Application (2027-2032) & (Kilotons)

Table 153. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Country (2021-2026) & (Kilotons)

Table 154. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity by Country (2027-2032) & (Kilotons)

Table 155. Middle East & Africa Bio-based Silica for Green Tire Consumption Value by Country (2021-2026) & (USD Million)

Table 156. Middle East & Africa Bio-based Silica for Green Tire Consumption Value by Country (2027-2032) & (USD Million)

Table 157. Bio-based Silica for Green Tire Raw Material

Table 158. Key Manufacturers of Bio-based Silica for Green Tire Raw Materials

Table 159. Bio-based Silica for Green Tire Typical Distributors

Table 160. Bio-based Silica for Green Tire Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Bio-based Silica for Green Tire Picture

Figure 2. Global Bio-based Silica for Green Tire Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Bio-based Silica for Green Tire Revenue Market Share by Type in 2025

Figure 4. Powder Examples

Figure 5. Granule Examples

Figure 6. Micro-bead Examples

Figure 7. Global Bio-based Silica for Green Tire Revenue by Raw Material Source, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Bio-based Silica for Green Tire Revenue Market Share by Raw Material Source in 2025

Figure 9. Rice Husk Ash Examples

Figure 10. Wheat Straw Ash Examples

Figure 11. Sugarcane Bagasse Ash Examples

Figure 12. Corn Cob Ash Examples

Figure 13. Other Agricultural Wastes Examples

Figure 14. Global Bio-based Silica for Green Tire Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 15. Global Bio-based Silica for Green Tire Revenue Market Share by Application in 2025

Figure 16. Passenger Car Examples

Figure 17. Commercial Vehicle Examples

Figure 18. Global Bio-based Silica for Green Tire Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 19. Global Bio-based Silica for Green Tire Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 20. Global Bio-based Silica for Green Tire Sales Quantity (2021-2032) & (Kilotons)

Figure 21. Global Bio-based Silica for Green Tire Price (2021-2032) & (US\$/Ton)

Figure 22. Global Bio-based Silica for Green Tire Sales Quantity Market Share by Manufacturer in 2025

Figure 23. Global Bio-based Silica for Green Tire Revenue Market Share by Manufacturer in 2025

Figure 24. Producer Shipments of Bio-based Silica for Green Tire by Manufacturer

Sales (\$MM) and Market Share (%): 2025

Figure 25. Top 3 Bio-based Silica for Green Tire Manufacturer (Revenue) Market Share in 2025

Figure 26. Top 6 Bio-based Silica for Green Tire Manufacturer (Revenue) Market Share in 2025

Figure 27. Global Bio-based Silica for Green Tire Sales Quantity Market Share by Region (2021-2032)

Figure 28. Global Bio-based Silica for Green Tire Consumption Value Market Share by Region (2021-2032)

Figure 29. North America Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 34. Global Bio-based Silica for Green Tire Sales Quantity Market Share by Type (2021-2032)

Figure 35. Global Bio-based Silica for Green Tire Consumption Value Market Share by Type (2021-2032)

Figure 36. Global Bio-based Silica for Green Tire Average Price by Type (2021-2032) & (US\$/Ton)

Figure 37. Global Bio-based Silica for Green Tire Sales Quantity Market Share by Application (2021-2032)

Figure 38. Global Bio-based Silica for Green Tire Revenue Market Share by Application (2021-2032)

Figure 39. Global Bio-based Silica for Green Tire Average Price by Application (2021-2032) & (US\$/Ton)

Figure 40. North America Bio-based Silica for Green Tire Sales Quantity Market Share by Type (2021-2032)

Figure 41. North America Bio-based Silica for Green Tire Sales Quantity Market Share by Application (2021-2032)

Figure 42. North America Bio-based Silica for Green Tire Sales Quantity Market Share by Country (2021-2032)

Figure 43. North America Bio-based Silica for Green Tire Consumption Value Market Share by Country (2021-2032)

- Figure 44. United States Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 45. Canada Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 46. Mexico Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 47. Europe Bio-based Silica for Green Tire Sales Quantity Market Share by Type (2021-2032)
- Figure 48. Europe Bio-based Silica for Green Tire Sales Quantity Market Share by Application (2021-2032)
- Figure 49. Europe Bio-based Silica for Green Tire Sales Quantity Market Share by Country (2021-2032)
- Figure 50. Europe Bio-based Silica for Green Tire Consumption Value Market Share by Country (2021-2032)
- Figure 51. Germany Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 52. France Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 53. United Kingdom Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 54. Russia Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 55. Italy Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 56. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity Market Share by Type (2021-2032)
- Figure 57. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity Market Share by Application (2021-2032)
- Figure 58. Asia-Pacific Bio-based Silica for Green Tire Sales Quantity Market Share by Region (2021-2032)
- Figure 59. Asia-Pacific Bio-based Silica for Green Tire Consumption Value Market Share by Region (2021-2032)
- Figure 60. China Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 61. Japan Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 62. South Korea Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)
- Figure 63. India Bio-based Silica for Green Tire Consumption Value (2021-2032) &

(USD Million)

Figure 64. Southeast Asia Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 65. Australia Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 66. South America Bio-based Silica for Green Tire Sales Quantity Market Share by Type (2021-2032)

Figure 67. South America Bio-based Silica for Green Tire Sales Quantity Market Share by Application (2021-2032)

Figure 68. South America Bio-based Silica for Green Tire Sales Quantity Market Share by Country (2021-2032)

Figure 69. South America Bio-based Silica for Green Tire Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Bio-based Silica for Green Tire Sales Quantity Market Share by Country (2021-2032)

Figure 75. Middle East & Africa Bio-based Silica for Green Tire Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 77. Egypt Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 78. Saudi Arabia Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 79. South Africa Bio-based Silica for Green Tire Consumption Value (2021-2032) & (USD Million)

Figure 80. Bio-based Silica for Green Tire Market Drivers

Figure 81. Bio-based Silica for Green Tire Market Restraints

Figure 82. Bio-based Silica for Green Tire Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Bio-based Silica for Green Tire in 2025

Figure 85. Manufacturing Process Analysis of Bio-based Silica for Green Tire

Figure 86. Bio-based Silica for Green Tire Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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