

Nanosilica Market to Reach \$5.4 Billion by 2027, Fueled by Increased Demand for Nanoparticles in the Medical Industry

*The Business Research Company's
Nanosilica Global Market Report 2023 –
Market Size, Trends, And Forecast 2023-
2027*

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EINPresswire.com/ -- The global
[nanosilica market](#) is segmented based
on various factors such as type, raw

material, and application. The market is expected to witness significant growth, with the market size projected to increase from \$3.95 billion in 2022 to \$4.28 billion in 2023, exhibiting a compound annual growth rate (CAGR) of 8.3%. Despite the challenges posed by the Russia-Ukraine conflict and the ongoing impacts of the COVID-19 pandemic, the market is anticipated to experience steady expansion, reaching \$5.4 billion by 2027, with a CAGR of 6.0%.



The market size of the
global nanosilica is expected
to grow to \$5.4 billion in
2027 at a CAGR of 6.0%"

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Increased Demand for Nanoparticles in the Medical
Industry

The surge in demand for nanoparticles in the medical
industry has significantly contributed to the growth of the
nanosilica market. Nanoparticles are being utilized as a

crucial tool in exploring various innovative approaches in medical sciences, including imaging, sensing, targeted drug delivery, gene delivery systems, and artificial implants. Notably, a recent study by the Washington University (GW) Cancer Center revealed the promising use of nanoparticle-encapsulated doxorubicin in the treatment of triple-negative carcinoma. Nanoparticles, especially amino-functionalized silica nanoparticles (SiNPs), are employed as targeted delivery vehicles, efficiently encapsulating doxorubicin and can be attached to a targeting moiety like anti-Claudin-4 (CLN4). Furthermore, the use of nanoparticles has shown potential in enhancing ultrasound imaging contrast, particularly in tumor imaging. The growing demand for nanoparticles in the medical industry is expected to drive substantial growth in the



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revenues generated for the nanosilica market.

For a comprehensive analysis of the global nanosilica market, access the sample report here:
<https://www.thebusinessresearchcompany.com/sample.aspx?id=3906&type=smp>

Notable Trend: Launch of 3D Printing Aerogel Microstructures

The launch of 3D printing aerogel microstructures has generated substantial demand in the nanosilica market. These 3D-printed aerogel microstructures provide efficient thermal insulation for miniature components. For instance, in 2020, a team of EMPA in Switzerland developed a technique to 3D print microstructures using insulating silica aerogels. These printed structures, as thin as a tenth of a millimeter, can insulate small electronic components, build small pumps, and aid in sensor manufacturing. The silica aerogel used exhibits a thermal conductivity of approximately 16 mW/(mK), significantly lower than that of polystyrene and even less than that of still air at 26 mW/(mK). Additionally, the printed silica aerogel demonstrates improved mechanical properties and can be molded and crushed, opening up new possibilities for post-processing of 3D-printed aerogel structures.

Key Market Segments and Major Players

The global nanosilica market is segmented based on:

- Type: P Type, S Type, Type III
- Raw Material: Rice Husk, Olivine, Bagasse, Other raw Materials
- Application: Rubber, Health And Medicine, Food, Coatings, Plastic, Concrete, Gypsum, Cosmetics, Electronics, Other Applications

Key players driving the nanosilica market include NanoPore Incorporated, Fuso Chemical, Evonik, Cabot Corporation, DuPont, Akzonobel, Nanostructured and Amorphous Materials (NanoAmor), Wacker Chemie AG, Normet, and NanosilSdn.

While Asia-Pacific currently holds the largest share in the nanosilica market, the analysis encompasses a comprehensive evaluation of various key regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

For a comprehensive analysis of the global nanosilica market, access the complete report here:
<https://www.thebusinessresearchcompany.com/report/nanosilica-global-market-report>

[Nanosilica Global Market Report](#) 2023 from TBRC covers the following information:

- Market size data for the forecast period: Historical and Future
- Market analysis by region: Asia-Pacific, China, Western Europe, Eastern Europe, North America, USA, South America, Middle East and Africa.
- Market analysis by countries: Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, UK, USA.

Trends, opportunities, strategies and so much more.

The Nanosilica Global Market Report 2023 by The Business Research Company is the most comprehensive report that provides insights on nanosilica market size, nanosilica market drivers and trends, nanosilica market major players, competitors' revenues, market positioning, and nanosilica market growth across geographies. The nanosilica market report helps you gain in-depth insights on opportunities and strategies. Companies can leverage the data in the report and tap into segments with the highest growth potential.

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The Business Research Company has published over 3000+ detailed industry reports, spanning over 3000+ market segments and 60 geographies. The reports draw on 1,500,000 datasets, extensive secondary research, and exclusive insights from interviews with industry leaders.

Global Market Model – Market Intelligence Database

The Global Market Model, The Business Research Company's flagship product, is a market intelligence platform covering various macroeconomic indicators and metrics across 60 geographies and 27 industries. The Global Market Model covers multi-layered datasets that help its users assess supply-demand gaps.

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