

Silicon Carbide (SiC) Fibers Market - A Global and Regional Analysis: Focus on Aerospace and Other Industries, Fiber Type, Usage, Application, and Countries - Analysis and Forecast, 2021-2031

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Abstracts

Market Report Coverage - Silicon Carbide (SiC) Fibers

Market Segmentation

Application: Aerospace, Energy and Power, Industrial, and Others

Fiber Type: Continuous Fiber and Short Fiber

Usage: Composite and Non-composite

Regional Segmentation

America: U.S., Canada, and Mexico

Germany, France, Italy, Spain, and Rest-of-Europe

Africa and Japan: Japan, South Korea, India, and Rest-of-Asia-Pacific and Japan

Rest-of-the-World: South America and Middle East and Africa

Drivers

Lightweight Fibers in the Aerospace and Defense Industry

North America Market

Demand from the Industrial Sector

S

Advanced Silicon Nitride Composites (SiC/RBSN)

Industries, Ltd., American Elements, BJS Ceramics GmbH, Free Form Fibers, COI Ceramics, Inc.,
Graphene Industries Plc, Matech, TISICS Ltd., Stanford Advanced Materials, NASA Glenn

is a brief overview of the product portfolio of different companies and the market presence of different

that it had produced a nonwoven silicon carbide veil using its patented Rapid Laser-assisted Chemical

ives a brief overview of the market status of different applications of the product and key players
he major end-user of SiC fiber as it is largely used for high-temperature engine components like

ket?

21 to 2031?

21 to 2031?

s of SiC fiber from 2021 to 2031?

period 2021-2031?

t, and what are the key market strategies adopted by them?

mainly of silicon carbide molecules. SiC fiber is one of the emerging lightweight materials, which is
gh-performance properties such as low density, lightweight, high stiffness, high chemical resistance,

with a CAGR of 19.3% during the forecast period of 2021-2031. The growth in the market is expected
emical, energy, and power industries.

es, turbine engines, propulsion units, and combustor liners. Aircraft manufacturers are increasingly
e components operate under extreme temperature conditions that require silicon carbide fibers,

low electrical conductivity, and corrosion resistance.

ries, as they exhibit properties like high strength, high heat, and corrosion resistance. Continuous SiC is commonly used in conjunction with ceramic fiber, carbon fiber, polymeric materials, and reinforced metals.

and military applications due to their corrosion resistance, low density, and oxidation resistance. Applications include nozzles, turbine blades, turbo-pump components, combustor liners, and landing gear. SiC ceramics, which also have enhanced mechanical properties such as thermal shock resistance and

Company, American Elements, COI Ceramics, NGS Advanced Fibers Co., Ltd., and Free Form Ceramics, and power industries. North America is the largest consumer of SiC fiber, majorly due to the larger

d., American Elements, BJS Ceramics GmbH, Free Form Fibers, COI Ceramics, Inc., Specialty Ceramics, Matech, TISICS Ltd., Stanford Advanced Materials, NASA Glenn Research Center, SGL Carbon

selective pool of players, primarily tier-1 (which holds 60-70% of the market), mid, small, and large companies, such as product portfolio, annual revenues, market penetration, research, and development capabilities in the industry.

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