

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

https://marketpublishers.com/r/SB0355E00A5FEN.html

Date: September 2021

Pages: 171

Price: US\$ 5,250.00 (Single User License)

ID: SB0355E00A5FEN

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

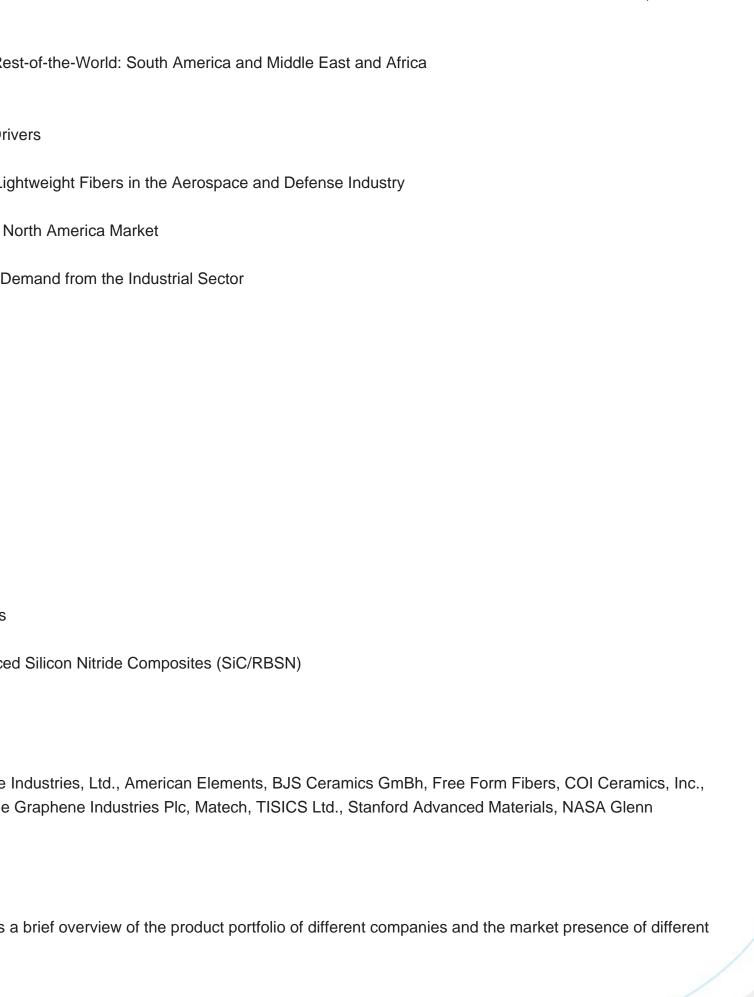
egional Segmentation

erica: U.S., Canada, and Mexico

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

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







nat 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,

rith 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,



w electrical conductivity, and corrosion resistance.

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

d military applications due to their corrosion resistance, low density, and oxidation resistance ations, including nozzles, turbine blades, turbo-pump components, combustor liners, and landing legal 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 , 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 lc, 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 such as product portfolio, annual revenues, market penetration, research, and development ndustry.



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