SiC Fibers Market Research Forecasts To 2027

The global SiC fibers market accounted for US$ 270.0 Mn in 2018 and is expected to grow at a CAGR of 22.2% during the forecast period 2019 - 2027, to account for US$ 3,571.1 Mn by 2027.

Pune, Apr 19, 2020 (Issuewire.com) - The latest market study on **"Global SiC Fiber Market to 2027 – Analysis and Forecasts by Form (Continuous, Woven Cloth, Others), Usage (Composites, Non-Composites), End-Use Industry (Aerospace and Defense, Energy and Power, Industrial, Others)".** The global SiC Fiber market is accounted to US$ 270.0 Mn in 2018 in 2018 and is expected to grow at a CAGR of 22.2% during the forecast period 2019 – 2027, to account to US$ 3,571.1 Mn by 2027. The report includes a key understanding of the driving factors of this growth and also highlights the prominent players in the market and their developments.

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Silicon carbide fiber is popularly available in two forms: beta and alpha. The beta form of silicon carbide fiber was developed in 1990 and was made commercially available at high prices. However, they are increasingly replaced by the new alpha forms of SiC Fibers. They are known for their chemical, mechanical, and thermal properties along with attractive degradation-resistant and high-temperature reinforcing ceramic, which makes them an ideal material to be used in energy, transportation, aerospace, defense, industrial and nuclear applications. The demand for alpha-SiC fibers ceramic material is rising in comparison to βbeta-SiC fibers as they offer high tensile strength and durability, lightweight, higher thermal conductivity, better resistance to corrosion, and oxidation amongst others.

Growing demand for SiC fibers from nuclear industry provides an opportunity for the SiC fibers market growth

The growth of the nuclear power industry has generated the need for the use of advanced technology and improved methods. SiC fibers are considered as an important material which is increasingly being used in various nuclear applications. It is attributed to its ability to bear high temperatures coupled with lightweight and high tensile strength, which derives its utilities in the nuclear sector. Moreover, these fibers are known to offer resistance to corrosion and oxidation and are effectively used to produce several materials such as nuclear fission and fusion reactors as fuel cladding and radiation blankets in the nuclear industry. With such intrinsic properties and uses, SiC fibers have outperformed the use of metallic and non-metallic materials.

Company Profiles

- American Elements
- BJS Ceramics GmbH
- COI Ceramics, Inc.
- General Electric Company
- Haydale Technologies Inc.
- Free Form Fibers
- NGS Advanced Fibers
- Specialty Materials, Inc.
- Suzhou Saifei Group Co., Ltd
- Ube Industries, Ltd.

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