

Ceramic Fibre Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 164 pages | EMR Inc.

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Report description:

The global ceramic fibre market attained a value of about USD 2.28 Billion in 2024. The market is further expected to grow in the forecast period of 2025-2034 at a CAGR of 4.50% to reach nearly USD 3.54 Billion by 2034.

Rising Use of Ceramic Fibre in the Steel Industry Owing to its High Thermal Efficiency Boosting the Market Growth

The low thermal conductivity as well as thermal density of ceramic fibre enables temperature control inside reheating furnaces in the steel industry, which is propelling the market growth. It is employed in heat-insulating covers, heat treatment furnaces, and reheating furnaces in the steel industry, which is aiding the growth of the ceramic fibre industry. The use of ceramic fibres in lining material for steelmaking equipment in the industry is also fuelling the industry growth. Moreover, the use of ceramic fibre to enhance thermal efficiency and reduce heat loss is fuelling the market growth. The development of crystalline ceramic fibre to produce other substances at high temperatures with low melting points is increasingly used in various industries, which, in turn, is augmenting the growth of the ceramic fibre industry. In addition, the surging use of refractory ceramic fibre (RCF) in various applications due to its high temperature resistance is bolstering the growth of the ceramic fibre industry.

Ceramic Fibre: Market Segmentation

Ceramic fibre, variously known as ceramic wool, is a synthetic fibre that is produced from the small-dimension filament that is composed of high purity aluminosilicate materials. It is white, odourless and has heat resistive and thermal efficient properties. It is used in various applications for filtration and sound insulation, among others.

The major types of ceramic fibre are:

- Refractory Ceramic Fibre (RCF)

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- Alkaline Earth Silicate (AES) Wool
- Others

The market can be broadly categorised on the basis of its product forms into:

- Blanket
- Module
- Board Paper
- Others

Based on end users, the market is divided into:

- Iron & Steel
- Refining & Petrochemical
- Power Generation
- Aluminium
- Others

The EMR report looks into the regional markets of ceramic fibre like:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Extensive Use of Ceramic Matrix Composites to Bolster the Growth of the Ceramic Fibre Industry

The rising use of ceramic matrix composites, made of ceramic fibres, in various industries is propelling the market growth. As they can withstand high temperatures and corrosions while providing chemical stability, they are increasingly deployed in applications that require high mechanical and thermal properties, hence aiding the market growth. They are deployed in major industries, including aerospace, automotive, and energy, to decrease the weight and increase operational efficiency. Ceramic matrix composites are also used as a substitute for nickel alloys in aircraft to increase their strength and high-temperature resistance. Moreover, they are ideal for use in energy optimisation and engine propulsion, which is augmenting the growth of the ceramic fibre industry.

Ceramic matrix composites also promote clean energy as they reduce greenhouse gas emissions and enhance fuel efficiency. Moreover, they reduce pollution as well as electricity consumption in industrial applications, which is invigorating the market growth. The rising use of ceramic fibres as brake disks in automobiles owing to their lightweight and heat resistant properties is driving the market growth. In addition, the rapid electrification of automobiles can expand applications of ceramic fibres to increase fuel efficiency while adapting complex shapes for high thermal requirements. Furthermore, increasing research and development (R&D) activities to develop cost-effective ceramic fibres is fuelling the market growth. For instance, the CEM-WAVE project of the European Union's Horizon 2020 program aims to increase energy efficiency and reduce production costs of ceramic matrix composites.

Key Industry Players in the Global Ceramic Fibre Market

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The report presents a detailed analysis of the following key players in the global ceramic fibre market, looking into their capacity, market shares, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Morgan Advanced Materials
- Unifrax
- Luyang Energy-saving Materials Co., Ltd.
- IBIDEN
- HarbisonWalker International
- Isolite Insulating Products Co., Ltd.
- NUTEC
- Others

The comprehensive report looks into the macro and micro aspects of the industry. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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