

Global Ceramic Fiber Market Size study & Forecast, by Type (RCF, AES Wool, Others), by Product form (Blanket, Module, Board, Paper, Others), by End-Use Industry (Refining & Petrochemical, Metals, Power Generation, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Ceramic Fiber Market is valued at approximately USD 2.0 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 8.2 % during the forecast period 2023-2030. Ceramic fibers are small filaments or strings made of a ceramic material, typically alumina and silica, that are used in lightweight units for electrical, thermal, and acoustic insulation. Ceramic fiber is an insulating material composed of alumina and silica that is held together by an inorganic binder. ceramic fiber market is expanding because of factors such as high thermal efficiency relative to replacements and increased use in high-temperature applications. Ceramic fiber's increasing use in end-use industries is predicted to drive the market over the next six years due to lightweight, high thermal conductivity, thermal shock resistance, high-temperature stability, and strong chemical resistance. Because of its outstanding features in high-temperature Applications, Ceramic Fiber insulation is highly valued due to its exceptional performance in high-temperature applications.

Ceramic Fiber insulation can withstand temperatures ranging from 1000°F to 2320°F (537°C to 1271.11°C) depending on the type. Because of this thermal stability, the insulation remains durable and effective even in the most demanding, heat-intensive environments. Ceramic Fiber insulation has low thermal conductivity, limiting the amount of heat that can pass through it. This characteristic aids in maintaining temperature stability and reducing heat loss in high-temperature machinery such as furnaces and kilns. Ceramic fiber are also utilized in the production of automobile and gas turbine parts. For example, the automotive and petrochemical industries are

growing at a 7.1% and 6.9% rate, respectively, creating additional opportunities and driving up demand for ceramic fiber. However, certain countries and regions have implemented safety precautions as well as usage requirements for ceramic fibers. These limits are primarily intended to reduce occupational RCF exposure in fields where workers come into contact with ceramic fiber products. Employers are frequently required to provide appropriate personal protective equipment, training, and ventilation systems to limit exposure to ceramic fiber dust and fibers.

The key regions considered for the Global Ceramic Fiber Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific is dominating owing to Manufacturing spending in the region has increased dramatically in recent years and is expected to continue at the highest forecasted growth rate. Furthermore, the presence of small and large-scale firms in India, China, Japan, and Thailand is boosting the ceramic fiber market in APAC. China dominates the global petrochemicals market, driving demand for ceramic fiber. Ceramic fibers are also widely utilized in the paper and pulp, textile, energy, and power industries, among others. North American Ceramic Fiber Market is expected to grow fastest during the forecast period. This is attributable to increased ceramic fiber demand from the iron and steel and petrochemical industries, the presence of major ceramic fiber producers, and consistent improvements in the aerospace industry.

Major market player included in this report are:

Morgan Advanced Materials plc

Alkegen Corporation

IBIDEN Co., Ltd.

HarbisonWalker International Inc.

Thermost Thermotech Co. Ltd.

YESO Insulating Products Co. Ltd.

Isolite Insulating Products Co. Ltd.

FiberCast Inc.

NUTEC Group

Luyang Energy-saving Materials Co., Ltd.

Recent Developments in the Market:

In May 2023, Morgan Advanced Materials announced their commercial launch of 50%+ Yixing manufacturing. This development assists TJM Insulation Firebricks (IFB) of Yixing in meeting customer needs in petrochemicals, iron and steel, aluminium, and cathode materials from China and Asia.

In February 2023, Platinum Equity announced the acquisition of Harbison Walker International Inc. Platinum Equity is a global investment business that manages over USD 36 billion in assets and has a portfolio of approximately 50 companies.

Global Ceramic Fiber Market Report Scope:

Historical Data – 2021 - 2022

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Product Form, End-Use Industry Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in

recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

RCF

AES Wool

Others

By Product form:

Blanket

Module

Board

Paper

Others

By End-Use Industry:

Refining & Petrochemicals

Metals

Power Generation

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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