

Global High Temperature Composite Resin Market Size study & Forecast, by Product (Phenolic, Epoxy, Thermoplastic), by Application (Aerospace And Defense, Transportation, Electrical And Electronics) and Regional Analysis, 2023-2030

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Abstracts

Global High Temperature Composite Resin Market is valued at approximately USD 1.2 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 10.8% over the forecast period 2023-2030. The high-temperature composite resin refers to composite materials that can withstand high temperatures, typically above 150°C. These composite resins are used in various industries, including aerospace, automotive, defense, and electronics, where high-temperature stability and durability are critical factors. The high-temperature composite resin market is driven by the increasing demand for lightweight and high-strength materials in various end-use industries. The aerospace industry, in particular, is a significant driver of the market, with the increasing use of composite materials in aircraft components such as wings, fuselage, and interiors.

The global demand for sophisticated defense equipment, including hypersonic missiles, fighter aircraft, unmanned aerial vehicles, and communication and spy satellites, is on the rise due to geopolitical tensions in regions such as the Middle East and the South China Sea. As a result, the need for high-temperature composite resin is projected to increase since it is used in various defense equipment components such as fighter jet engines, external bodies, nozzles, air defense systems, blades & propellers, leading edges on hypersonic missiles, and fire-resistant material for submarine propulsion compartments.

High-temperature composite resins can withstand temperatures of up to 1600 degrees Fahrenheit, making them a preferred choice over metal-reinforced resins as they are

lighter and perform better under fatigue. Polyimide resin, which has good thermal-oxidative stability, is a common choice for aircraft and vehicle interiors due to its strong resistance to fire, smoke, and high temperatures. Further, High processing and manufacturing cost to restrict the market growth. Moreover, Increasing use of composite resins in the growing aerospace industry act as an opportunity for global high temperature composite market.

The key regions considered for the Global High Temperature Composite Resin Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. The high-temperature composite resin market is growing globally, with Asia Pacific expected to witness the fastest growth during the forecast period due to increasing demand from emerging economies like China and India. The presence of a large number of aircraft and automotive manufacturing companies in the region is also driving market growth.

North America and Europe are also significant markets for high-temperature composite resin due to the presence of major defense equipment manufacturers in the regions. The demand for high-temperature composite resin is also increasing in the Middle East and Africa region due to the rising demand for defense equipment. Latin America is expected to witness steady growth in the high-temperature composite resin market during the forecast period. The region's growing automotive and aerospace industries are driving the demand for high-temperature composite resin. However, the market growth is restrained due to the region's economic instability and political uncertainty.

Major market players included in this report are:

Hexcel Corporation

Solvay SA

Hexion Inc.

Huntsman Corporation

Toray Industries Inc.

Arkema Group

Mitsubishi Chemical Holdings Corporation

SGL Carbon SE

Teijin Limited

Owens Corning

Recent Developments in the Market:

In 2020, Henkel and Carbon Revolution announced a partnership to develop advanced composite wheel technologies for high-performance cars using Henkel's Loctite MAX 2

polyurethane composite matrix resin.

In 2020, Mitsubishi Chemical Advanced Materials launched a new line of high-temperature thermoplastics called 'Duratron T5530 PAI,' which is designed to meet the demanding thermal, mechanical, and chemical requirements of the aerospace industry. In 2021, SGL Carbon announced a partnership with Airbus to develop new composite materials and processes for high-temperature applications in the aerospace industry. The partnership aims to accelerate the development of new lightweight and cost-effective solutions for aircraft components.

Global High Temperature Composite Resin Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

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

Segments Covered - Product, Application, 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 Product:

Phenolic

Epoxy

Thermoplastic

By Application:

Aerospace And Defense

Transportation

Electrical And Electronics

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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