

High Temperature Resin Market Report and Forecast 2025-2034

Market Report | 2025-07-14 | 177 pages | EMR Inc.

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Report description:

The global high temperature resin market size reached a value of approximately USD 4.13 Billion in 2024. The market is further projected to grow at a CAGR of 4.50% between 2025 and 2034, reaching a value of USD 6.41 Billion by 2034.

Key Trends in the Market

High temperature resins contain properties necessary to withstand high temperatures and are used in the production of coatings and adhesives. It has the ability to resist deformation and has high strength, precision, hardness, and modulus.

- The demand for high temperature resin is rising from various end use industries such as construction, automotive, and healthcare owing to the various benefits provided by them such as chemical resistance, sliding friction, and weight savings.
- The ability of high temperature resins to increase the longevity of the structural components used in aerospace and its use as a complement or replacement of mechanical fasteners is further aiding the high temperature resin market growth.
- Rising geopolitical tension in several locations is increasing the demand for defence equipment such as fighter aircraft, communication and spy satellites, and hypersonic missiles, wherein high-temperature composite resins are used in abundance.

Market Segmentation

The EMR's report titled "High Temperature Resin Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Silicone

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- Epoxy
- Acrylic
- Polyethersulfone
- Polyester
- Polyurethane
- Phenolic
- Polyetharamide
- Others

Market Breakup by Application

- Adhesives and Sealants
- Paints and Coatings
- Composites

Market Breakup by Region

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

Market Share by Type

The epoxy segment held a large share of the market because of its high quality and superior properties compared to other types including silicone, polyester, and phenolic. The high impact resistance, high adhesion, and flexibility characteristics are rapidly fuelling the high temperature resin market demand. Additionally, epoxy resins are resistant to moisture, corrosion and chemicals and offer great strength and stability, boosting their industrial applications.

Market Share by Region

North America accounted for a large market share owing to the growing demand for high temperature resins from the aerospace and automotive industries. They are considered a good metal replacement option because of their various properties including temperature and chemical resistance and are used as sealants and adhesives in the transportation sector. The government of the United States is increasing standards and regulations regarding the safety of vehicles, which is further contributing to the increased utilisation of these resins. The presence of key aircraft manufacturers and the increasing use of high temperature resins in fighter jets are further contributing towards the high temperature resin market growth in North America.

Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the global high temperature resin global market, covering their competitive landscape and latest developments like mergers, acquisitions, investments, and expansion plans.

BASF SE

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BASF SE was founded in 1865 and is headquartered in Ludwigshafen, Germany. The company provides a wide range of solutions in chemicals and materials, agriculture, and transportation, among others.

Mitsui Chemicals Inc

Mitsui Chemicals Inc is a chemical manufacturing company that was founded in 1997. The company is headquartered in Tokyo, Japan and is known for providing products and services in fields such as construction, automotive, and electronics/information.

Saudi Basic Industries Corporation

Saudi Basic Industries Corporation was established in 1976 and has its headquarters located in Riyadh, Saudi Arabia. The company is mainly involved in metals, petrochemicals, industrial polymers, metals, chemicals, and fertilisers manufacturing.

Other high temperature resin market players include DuPont de Nemours, Inc, Wacker Chemie AG, The Dow Chemical Company, DIC Corporation, Huntsman Corporation, Hexion Inc., and MG Chemicals, among others.

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