

Geopolymer Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global geopolymer market size reached US\$ 6.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 19 Billion by 2028, exhibiting a growth rate (CAGR) of 21.2% during 2023-2028.

Geopolymers are inorganic ceramic materials characterized by networks of mineral molecules linked with covalent bonds. They can be classified into two groups, namely, pure inorganic and hybrid (organic-inorganic) geopolymers. Although geopolymers like obsidian occur naturally, they can also be synthesized chemically. Geopolymers have an amorphous microstructure at room temperature owing to which they have high heat resistance and can be used for thermal insulation. Commercially produced geopolymers are currently used in fire and heat resistant coatings and adhesives, medicinal applications, high-temperature ceramics, and toxic and radioactive waste encapsulation.

Global Geopolymer Market Drivers:

Geopolymers offer advantages such as high strength, ultra-porosity, low drying shrinkage, low creep and acid resistance. On account of these properties, they are used to substitute Portland cement as a binder in concrete. They are also utilized for repairing bridges, tunnels, roads, and in the rehabilitation of pipes and structures in the civil infrastructure, oil and gas, and chemical industries. Moreover, geopolymers are cheaper than Portland cement, and their production emits lesser carbon dioxide. With rising environmental regulations and emission strain on the cement industry, the demand for geopolymers is increasing. Furthermore, factors such as technological developments and innovations in the construction sector are also contributing to the growth of the global geopolymer market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global geopolymers market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on application and end-use industry.

Breakup by Application:

- Cement and Concrete
- Furnace and Reactor Insulators
- Composites
- Decorative Artifacts

Based on the application, the market has been segmented into cement and concrete, furnace and reactor insulators, composites, and decorative artifacts. The cement and concrete segment currently accounts for the largest share.

Breakup by End-Use Industry:

- Building Construction
- Infrastructure
- Industrial
- Art and Decoration
- Others

On the basis of end-use industries, the market has been segmented into building construction, infrastructure, industrial, art and decoration, and others.

Breakup by Region:

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

Region-wise, the market has been segmented into Asia Pacific, Europe, North America, Middle East and Africa, and Latin America. Amongst these, Asia Pacific is the biggest market, accounting for majority of the global share.

Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being Imerys Group, Milliken & Company Inc., PCI Augsburg GMBH, Rocla, Wagners, Universal Enterprise, Schlumberger Ltd, Murray & Roberts Cementation Co. Ltd, Banah UK Ltd, Zeobond Pty Ltd, Uretek, BASF, Corning Inc., Nu-Core, Pyromeral Systems and Airbus.

Key Questions Answered in This Report:

How has the global geopolymers market performed so far and how will it perform in the coming years?

What are the key regional markets in the global geopolymers industry?

What has been the impact of COVID-19 on the global geopolymers market?

What is the breakup of the global geopolymers market on the basis of application?

What is the breakup of the global geopolymers market on the basis of end-use industry?

What are the various stages in the value chain of the global geopolymers market?

What are the key driving factors and challenges in the global geopolymers market?

What is the structure of the global geopolymers market and who are the key players?

What is the degree of competition in the global geopolymers market?

How are geopolymers manufactured?

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