

Global Cellular Glass Market Size study & Forecast, by Product (Blocks & Shells, Sheets & Panels, Foam Glass Gravels) by Application (Construction, Industrial, Chemical, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Cellular Glass Market is valued at approximately USD 611.11 Million in 2022 and is anticipated to grow with a healthy growth rate of more than 2.60% over the forecast period 2023-2030. Cellular glass is a type of insulation material known for its unique cellular structure. It is made from crushed glass combined with a foaming agent and heated until it expands into a rigid, closed-cell structure. The resulting material is lightweight, non-combustible, and highly resistant to moisture, making it ideal for insulation in a variety of applications, including buildings, pipelines, and industrial equipment. Cellular glass insulation offers excellent thermal performance, maintaining consistent temperatures and reducing energy costs. Additionally, its closed-cell structure makes it resistant to water absorption, ensuring long-term durability and preventing issues such as mold growth and structural degradation. The Cellular Glass market is expanding because of factors such as rising demand for energy-efficient buildings, growing industrial infrastructure development and increasing focus on sustainable materials.

As societies become more conscious of environmental sustainability and the need to reduce energy consumption, there's a growing emphasis on constructing buildings that are highly efficient in terms of energy usage. Cellular glass insulation plays a crucial role in this context due to its exceptional thermal insulation properties. By effectively minimizing heat transfer through walls, floors, and roofs, cellular glass helps buildings maintain consistent indoor temperatures, reducing the reliance on heating and cooling systems. According to the International Energy Agency (IEA), global investments in

energy efficiency reached \$560 billion in 2022. This includes investments in building renovations, public transport. Moreover, The Chinese government has placed significant emphasis on implementing its 13th Five Year Plan, which includes initiatives aimed at promoting green building practices. As part of its national climate commitment, China has set a target for 50% of all new buildings constructed by 2020 to attain green certification. As investments and initiatives for green buildings or energy-efficient building projects continue to rise there is a rising demand of Cellular Glass Market. In addition, technological advancements and product innovations as well as stringent building regulations and standards are creating new opportunities to the market growth. However, availability of alternatives stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Cellular Glass Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the Growing Industrial Applications, rising Infrastructure Development, rising technological advancement, and rising spending on construction activities in the region. As of October 2022, the United States Green Building Council (USGBC) reported approximately 20,125 projects certified under LEED, alongside 21,068 Silver projects, 21,206 Gold projects, and 7,027 Platinum projects. Simultaneously, the US Energy Information Administration highlighted that residential and commercial sectors accounted for around 21 quadrillion Btu of energy consumption in 2021, constituting 28% of the nation's total end-use energy consumption. Recognizing the substantial energy demand stemming from buildings, the US government has unveiled plans to allocate USD 3.16 billion towards the transformation of approximately 450,000 homes in low-income areas into energy-efficient structures. Asia Pacific is expected to grow at a fastest rate during the forecast period, owing to factors such as rapid urbanization and infrastructure development, government initiatives and regulations, industrial expansion and infrastructure investments in the region.

Major market player included in this report are:

Anhui Huichang New Material Co., Ltd.

Earthstone International LLC

Geocell Schaumglas GmbH

Glapor Werk Mitterteich GmbH

Misapor AG

Owens Corning

Polydros, S.A.

REFAGLASS S.R.O.

Stes-Vladimir

Uusioaines OY

Recent Developments in the Market:

In May 2023, Schlüsselbauer and Reiling unveiled plans for the consolidation of their operations within the German cellular glass industry. To achieve this, they established Veriso GmbH & Co. KG, a joint venture where both companies hold an equal share.

In January 2023, Owens Corning expanded its product line with the introduction of FOAMGLAS Perinsul SIB. This innovative addition to their portfolio serves as an advanced thermal bridging solution tailored for high-performance building applications.

Global Cellular Glass 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:

Blocks & Shells

Sheets & Panels

Foam Glass Gravels

By Application:

Construction

Industrial

Chemical

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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