

Asia Pacific Silica Sand Market Report by End Use (Glass Industry, Foundry, Hydraulic Fracturing, Filtration, Abrasives, and Others), Country 2024-2032

<https://marketpublishers.com/r/AA6BB506C96AEN.html>

Date: January 2024

Pages: 137

Price: US\$ 3,699.00 (Single User License)

ID: AA6BB506C96AEN

Abstracts

The Asia Pacific silica sand market size reached US\$ 6.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 10.8 Billion by 2032, exhibiting a growth rate (CAGR) of 6.1% during 2024-2032. The growing number of infrastructure and construction activities, rising utilization in environmental remediation and waste management, and increasing employment in the oil and gas industry for hydraulic fracturing operations are among the key factors driving the market growth.

Silica sand, also known as industrial sand, is a granular material composed of silicon dioxide (SiO₂), as feldspar, clay, and iron oxides. It is a naturally occurring form of quartz that is abundantly found on Earth. It offers enhanced hardness, low impurity content, resistance to weathering, and low conductivity. Besides this, it provides improved transparency, strength, and resistance to heat and chemicals. As it is widely employed in foundry casting and water filtration, the demand for silica sand is rising in the Asia Pacific region.

At present, the increasing utilization of silica sand in the oil and gas industry in hydraulic fracturing (fracking) operations is contributing to the growth of the market in the Asia Pacific region. In addition, the rising adoption in the foundry industry for producing precise and high-quality metal castings is propelling the growth of the market. Apart from this, the growing demand for high-purity silica sand in manufacturing photovoltaic panels and silicon-metal composite materials is offering a positive market outlook in the Asia Pacific region. Besides this, the rising employment of silica sand in the automotive industry for producing specialty glass is strengthening the growth of the market. Furthermore, the increasing demand for silica sand due to the thriving manufacturing sector in the region is bolstering the growth of the market.

Asia Pacific Silica Sand Market Trends/Drivers: Increasing adoption in the construction industry

There is a rise in the adoption of silica sand due to rapid urbanization and increasing investments in residential, commercial, and infrastructure projects across the region. People are increasingly preferring renovation in households on account of their inflating income levels and improving living standards. Moreover, silica sand is an essential component in concrete and mortar mixes that assists in providing strength and durability to the structures in the Asia Pacific region. Constructors are increasingly utilizing silica sand in construction activities to enhance the workability of a building. Besides this, there is an increasing focus on sustainable construction practices, such as green buildings and eco-friendly materials among the masses, which, in turn, is catalyzing the demand for silica sand, as it is a natural and readily available resource that is widely utilized as a sustainable material in construction in the region.

Rising utilization in environmental remediation and waste management

Governing agencies of different countries in the Asia Pacific region are rapidly adopting silica sand in environmental remediation and waste management applications to reduce environmental pollution. They are also utilizing silica sand as a bedding material for landfill liners to prevent the leakage of contaminants into the surrounding soil and groundwater. Moreover, governing authorities in the region are implementing stringent environmental regulations and prompting industries to adopt more sustainable practices in the Asia Pacific region. They are also implementing policies and guidelines to address soil and ground water contamination and encouraging proper disposal of waste. Apart from this, silica sand is utilized in soil remediation projects to treat contaminated soil and groundwater by absorbing and removing pollutants. It acts as a medium for soil vapor extraction and assists in the removal of volatile organic compounds (VOCs) and other contaminants. It is also used in wastewater treatment processes in the region to enhance filtration and remove suspended solids, turbidity, and organic matter from wastewater, in turn providing cleaner and safer water. It is employed as a filtration medium in various treatment systems, such as rapid sand filters and multimedia filters. . People are increasingly focusing on consuming safe water to prevent diseases due to environmental concerns about waste management among individuals in the Asia Pacific region.

Asia Pacific Silica Sand Industry Segmentation: IMARC Group provides an analysis of the key trends in each segment of the Asia

Pacific silica sand market report, along with forecasts at the regional and country levels from 2024-2032. Our report has categorized the market based on end use.

Breakup by End Use:

Glass Industry

Foundry

Hydraulic Fracturing

Filtration

Abrasives

Others

Glass industry represents the largest market share

The report has provided a detailed breakup and analysis of the market based on the end use. This includes glass industry, foundry, hydraulic fracturing, filtration, abrasives, and others. According to the report, glass industry represented the largest segment.

Silica sand is widely utilized in the glass industry for producing various glass products, such as bottles, containers, flat glass, fiberglass, and specialty glass in the Asia Pacific region. The rising adoption of silica sand, as it assists in enhancing the transparency, strength, and thermal resistance of glass, is contributing to the growth of the market. There is a rise in the utilization of glass in construction activities, architectural designs, and packaging. Additionally, silica sand is widely utilized in the production of fiberglass, which is further useful in the manufacturing of insulation, roofing materials, composite materials, and other structural components. It is also used in the automotive, solar energy, and electronics sectors for manufacturing various glass-related components with enhanced durability. In addition, there is a rise in the demand for silica sand due to the increasing focus on energy-efficient buildings in the region. Moreover, the growing demand for glass containers and packaging materials in food and beverage (F&B), pharmaceutical, and cosmetics industries is positively influencing the market. Furthermore, the rising utilization of glass containers manufactured from silica sand, as it provides enhanced chemical stability for storing and preserving various substances is bolstering the growth of the market.

Breakup by Country:

China

India

Malaysia
South Korea
Japan
Australia
Others

China exhibits a clear dominance, accounting for the largest market share

The report has also provided a comprehensive analysis of all the major regional markets, which include China, India, Malaysia, South Korea, Japan, Australia, and others.

China held the biggest market share as it has considerable silica sand resources with cost-effective rates. In addition, the rising utilization of silica sand in the foundry casting and glass industry is contributing to the growth of the market in the country. Apart from this, the increasing infrastructure development and real estate projects are supporting the growth of the market in China. In line with this, the growing demand for silica sand due to the increasing industrialization and urbanization is positively influencing the market. Besides this, technological advancements in silica sand mining are bolstering the growth of the market in China. Additionally, the rising number of shale gas exploration activities is propelling the growth of the market in the country.

Competitive Landscape:

Key players in the Asia Pacific region are engaging in silica sand mining and extraction operations to obtain raw materials. This comprises identifying suitable deposits, obtaining necessary permits, and employing mining techniques to extract silica sand from the Earth. In addition, companies are employing advanced techniques, such as washing, drying, crushing, sorting, and grading to remove impurities, enhance purity and quality, and achieve desired specifications. Apart from this, various manufacturers in the region are focusing on introducing specialized grades of silica sand with specific particle size distribution, purity levels, and chemical properties to cater to the demand in various end-use industries, such as glass, foundry, and fracking. Additionally, several companies are focusing on implementing measures to minimize environmental impact during mining, processing, and transportation activities in the Asia Pacific region. Furthermore, they are investing in quality control measures to ensure the consistency and reliability of their products, which is positively influencing the market.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided.

Chongqing Changjiang River Moulding Material (Group) Co. Ltd
Diatreme Resources Limited
JFE Mineral Company Ltd.
Mangal Minerals
Mitsubishi Corporation
PUM Group
Raghav Productivity Enhancers Limited
Rock Energy International
TOCHU Corporation
VRX Silica Ltd
Xinyi Golden Ruite Quartz Materials Co., Ltd.

Key Questions Answered in This Report

1. What was the size of the Asia Pacific silica sand market in 2023?
2. What is the expected growth rate of the Asia Pacific silica sand market during 2024-2032?
3. What has been the impact of COVID-19 on the Asia Pacific silica sand market?
4. What is the breakup of the Asia Pacific silica sand market based on the end use?
5. What are the key regions in the Asia Pacific silica sand market?
6. Who are the key players/companies in the Asia Pacific silica sand market?

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