

Graphite Packing Market By Packing Type (Flexible Graphite Packing, Reinforced Graphite Packing, Others), By Application (Refineries, Power Plants, Chemical Manufacturing, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

Market Report | 2022-10-01 | 284 pages | Allied Market Research

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Report description:

The graphite packing market was valued at \$396.2 million in 2021, and is projected to reach \$661.0 million by 2031, growing at a CAGR of 5.3% from 2022 to 2031.

Graphite is an inorganic, black-colored type of pure carbon that can be combined with PTFE yarn to produce yarn with exceptional characteristics. Suitable for usage as a general valve and pump packing in a variety of industries, including refineries, gas plants, petrochemical facilities, chemical plants, and factories that process chemicals. Pumps and valves in steam applications use expanded graphite packing. Graphite packings are created by braiding premium graphite yarns. They have very little friction between them. Heat can be conducted via packings made of graphite. For agitators, valves, and shafts that handle chemicals, and acids graphite packings are appropriate. In addition, they are employed in situations including high temperatures, increased shaft speed, and high pressure. High-temperature valves and steam turbines both use expanded graphite packings. Asbestos packings can easily be replaced with expanded graphite packings. Graphite packings have several advantages, including rapid and easy maintenance. Graphite packings can be treated with PTFE to get better benefits such as preventing color contamination, gaining better stability, etc. Both graphite, as well as PTFE packings, are cost-effective as they both are durable and require low maintenance.

Valves and pumps are used in various industries including water and wastewater treatment, chemical, oil & gas, and power industry among others. Valve packing is a component in a valve that forms a pressure seal between the inside valve and the outside of the valve, keeping the process fluid from leaking out. The packing in pumps is often made to allow some leakage between the sleeve/shaft and packing to offer lubrication and heat evacuation owing to the revolving sleeve. With process temperature changes or simply seasonal ambient temperatures, the packing will eventually deteriorate, relax, or become loose

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and start to leak. In addition, any process fluid that spills out of a valve can be expensive, untidy, and potentially dangerous to human health and the environment.

Flexible graphite packing provides an alternative to pre-formed graphite rings. Flexible graphite packings are used in high-pressure and high-temperature environments prevailing in power plants, boilers, refineries, steel mills, and the petrochemical industry. Increased demand from power plants and the petrochemical industry is the primary factor driving the demand for flexible graphite packings. High-quality and high-purity graphite packings are advantageous to refinery operators. Due to the high purity of the yarns, it offers a rare combination of tightness and heat dispersion, exceptional high-temperature and chemical resistance, as well as decreased process contamination. The foundation of an industrial economy is petrochemical production, which is essential to numerous industrial operations. The need for petrochemicals is being driven by an increase in demand for downstream products from a variety of end-use industries, including construction, medicines, and automotive. The increase in population in developing regions of Asia-Pacific and the Middle East is expected to create lucrative opportunities for the graphite packing market. An increase in population is anticipated to drive demand for power, petroleum-based products, and water treatment facilities. These factors are projected to boost the demand for refineries, and power plants thus boosting the demand for graphite packing.

The graphite packing market is segmented on the basis of type, application, and region. On the basis of type, flexible graphite packing, reinforced graphite packing, and others. The reinforced graphite packing segment is projected as the fastest-growing segment.

On the basis of application, the market is categorized into refineries, power plants, chemical manufacturing, and others. The power plant segment is projected as the fastest-growing segment. On the basis of region, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

Major players operating in the global graphite packing market include Garlock Sealing Technologies, Sunwell Seals, Phelps Industrial Products, Klinger Limited, Sealmax, Mineral Seal Corporation, W. L. Gore and Associates, Cixi Xinsheng Seal Factory, Marshall packing and Insulation Industrie and Hysesaling

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the graphite packing market analysis from 2021 to 2031 to identify the prevailing graphite packing market opportunities.

-Market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders to make profit-oriented business decisions and strengthen their supplier-buyer network.

-An in-depth analysis of the graphite packing market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes an analysis of the regional as well as global graphite packing market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Packing Type

- Flexible Graphite Packing
- Reinforced Graphite Packing
- Others

By Application

- Refineries
- Power Plants
- Chemical Manufacturing
- Others

By Region

- North America

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- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China
- India
- Japan
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- Phelps Industrial Products
- klinger limited
- Mineral Seal Corporation
- W. L. Gore & Associates, Inc.
- Sunwell Seals
- Sealmax
- Cixi Xinsheng Seal Factory
- Shri Rangaa Asbestos Company
- Garlock Sealing Technologies
- Marshall packing and Insulation Industries

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