

Asia Pacific Encapsulated Gaskets and Seals Market Forecast to 2030 - Regional Analysis - by Material (Silicon, Neoprene, Viton, Teflon, and Others) and End Use (Oil and Gas, Food, Pharmaceutical, Chemical, Automotive, and Others)

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Abstracts

The Asia Pacific encapsulated gaskets and seals market was valued at US\$ 113.29 million in 2022 and is expected to reach US\$ 200.80 million by 2030; it is estimated to register a CAGR of 7.4% from 2022 to 2030.

Adoption of Fluorinated Ethylene Propylene Encapsulated Gaskets for Cryogenic Applications Boosts Asia Pacific Encapsulated Gaskets and Seals Market

Gaskets flexible at low temperatures ensure optimum sealing performance. The performance of o-rings intended for cryogenic applications is tested by standards to measure physical properties and material performance. A few tests intended for cryogenic application are brittleness (ASTM D2137), temperature recall (ASTM D1329), and compression kit (ASTM D395). Advancements in polymer engineering have led to the development of efficient encapsulated gaskets and seals with chemical resistance, mechanical properties, and pressure resistance at low-temperature operations.

FEP-encapsulated o-rings with steel flat round ribbon spring core is a promising approach for cryogenic applications. An FEP encapsulated gasket can handle low temperatures up to ?420°F and pressures up to 3000 psi, as well as exposure to cryogenic media such as liquid oxygen, liquid nitrogen, and hydrogen. These encapsulated o-rings can be manufactured in both metric and US cross-sections with a wide range of diameters. Cryogenic o-rings are commonly used in the aerospace industry for tanks and rocket valve applications. They prevent the leakage of the gas

mixture, which is responsible for propelling the rocket. In the oil & gas industry, gaskets are used in the transfer of liquefied natural gas and liquefied petroleum gas. Further, it is used in magnetic resonance imaging, cryogenic pumps, and radio astronomy, as well as in the production of special gases and aviation technologies. Thus, the adoption of FEP-encapsulated gaskets for cryogenic applications is expected to create lucrative opportunities in the encapsulated gaskets and seals market.

Asia Pacific Encapsulated Gaskets and Seals Market Overview

The encapsulated gaskets and seals market in Asia Pacific has been propelled by the burgeoning manufacturing sector, increasing industrialization, and a rising emphasis on advanced sealing solutions. As countries in Asia Pacific continue to develop their infrastructures, the demand for reliable sealing components, such as encapsulated gaskets and seals, has surged across diverse applications, including automotive, electronics, and chemical processing. The Asia Pacific market is very dynamic, with various manufacturers introducing innovative encapsulated gaskets and seal solutions to address specific industry challenges. For instance, in response to the automotive sector's demand for high-performance and durable sealing solutions, several companies have unveiled encapsulated gaskets and seals designed to withstand extreme temperatures and aggressive chemicals and ensure long-term reliability in critical automotive components. According to a report published by the China Passenger Car Association, in 2022, Tesla Inc delivered 83,135 made-in-China electric vehicles, indicating growth in sales of electric vehicles compared to 2021. According to the International Organization of Motor Vehicle Manufacturers (OICA), Asia-Oceania's vehicle production increased from 46.8 million in 2021 to 50 million in 2022.

The electronics industry in Asia Pacific has witnessed an uptick in the adoption of encapsulated gaskets and seals to enhance the protection of electronic devices against environmental factors. As per the study by the Semiconductor Industry Association, ~75% of global semiconductor capacity is based in East Asia. Semiconductor companies will benefit from a cost advantage of 25–50% with the start of manufacturing activities in the region. Additionally, according to the Association of Southeast Asian Nations, the electronics sector holds 20–50% of the total value of exports in Asia. As the region continues to evolve as a global manufacturing hub, the encapsulated gaskets and seals market is anticipated to expand further, with key players heavily investing in research and development to meet the evolving demands of industries in Asia Pacific. For instance, in 2020, Freudenberg Sealing Technologies, a leading manufacturer of sealing solutions, partnered with NOK Corporation, a Japanese sealing products manufacturer, to expand its market presence and product portfolio in Asia.

Asia Pacific Encapsulated Gaskets and Seals Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Encapsulated Gaskets and Seals Market Segmentation

The Asia Pacific encapsulated gaskets and seals market is categorized into material, end use, and country.

Based on material, the Asia Pacific encapsulated gaskets and seals market is segmented into silicon, neoprene, Viton, Teflon, and others. The Viton segment held the largest market share in 2022.

Based on end use, the Asia Pacific encapsulated gaskets and seals market is segmented into oil and gas, food, pharmaceutical, chemical, automotive, and others. The oil and gas segment held the largest market share in 2022.

By country, the Asia Pacific encapsulated gaskets and seals market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific encapsulated gaskets and seals market share in 2022.

AS Aston Seals SPA, Gasco Inc, Polymax Ltd, Trelleborg AB, VH Polymers, and Vulcan Engineering Ltd are some of the leading companies operating in the Asia Pacific encapsulated gaskets and seals market.

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