

North America 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 North America encapsulated gaskets and seals market was valued at US\$ 77.74 million in 2022 and is expected to reach US\$ 122.19 million by 2030; it is estimated to register a CAGR of 5.8% from 2022 to 2030.

Soaring Growth of Oil & Gas Industry Fuels North America Encapsulated Gaskets and Seals Market

Encapsulated gaskets and seals are used to seal flanges in pipelines and equipment within the oil & gas industry infrastructure. Gaskets provide a secure and leak-resistant seal between connected flanges, preventing the escape of fluids and gases. In oil & gas wellheads, where pressure and temperature conditions can be extreme, encapsulated gaskets and seals are used to seal critical connections. During the construction and maintenance of pipelines, encapsulated gaskets and seals are used to seal the connections between pipeline segments, as well as in tanks and vessels used for storing and transporting oil and gas.

According to the Pipeline and Hazardous Materials Safety Administration, 2.6 million miles of pipelines in North America deliver hundreds of billions of tons of liquid petroleum products and trillions of cubic feet of natural gas yearly. As per the Canada Energy Regulator, most of the crude oil produced in Canada is shipped using pipelines from western provinces to refineries in the US, Ontario, and Quebec. Therefore, the tremendous growth of the oil & gas industry propels the encapsulated gaskets and seals

market growth.

North America Encapsulated Gaskets and Seals Market Overview

The encapsulated gaskets and seals market in North America has experienced substantial growth in recent years, driven by a confluence of factors such as growing demand for advanced materials for sealing purpose, shaping various industrial sectors. These specialized sealing solutions have become integral in applications where robust performance in challenging conditions is paramount. In the automotive industry, encapsulated gaskets and seals play an important role in enhancing engine efficiency, meeting stringent emission standards, and ensuring long-term durability. For instance, the International Organization of Motor Vehicle Manufacturers (OICA) quotes that vehicle production in North America increased by 10%, from ~13.5 million in 2021 to 14.8 million vehicles in 2022. The aerospace sector also significantly contributes to the market demand, with an increasing focus on lightweight and high-performance materials for various components.

The increasing emphasis of the oil & gas industry on sealing solutions that can withstand extreme pressures, temperatures, and corrosive environments has further fueled the market growth. The regulatory landscape, marked by stringent safety and environmental standards, has accelerated the adoption of advanced encapsulated gaskets and seals across industries. For instance, the US produces 75% of its crude oil supply and 90% of its natural gas supply domestically. By 2021, it was producing about eleven million barrels of crude oil per day and around one hundred billion cubic feet of gas per day.

North America benefits from the presence of well-established manufacturers, leveraging cutting-edge technologies and investing heavily in research and development to stay ahead in the market. The continuous innovation in material science and manufacturing processes enhances the durability and reliability of encapsulated gaskets and seals. As industries prioritize efficiency, safety, and sustainability, the encapsulated gaskets and seals market in North America is poised for sustained growth, with a trajectory driven by technological advancements and evolving industrial needs.

North America Encapsulated Gaskets and Seals Market Revenue and Forecast to 2030 (US\$ Million)

North America Encapsulated Gaskets and Seals Market Segmentation

The North America encapsulated gaskets and seals market is categorized into material, end use, and country.

Based on material, the North America 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 North America 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 North America encapsulated gaskets and seals market is segmented into the US, Canada, and Mexico. The US dominated the North America encapsulated gaskets and seals market share in 2022.

AS Aston Seals SPA, Gasco Inc, Marco Rubber & Plastics LLC, MCM SPA, ROW Inc, Seal & Design Inc, Trelleborg AB, VH Polymers, and Vulcan Engineering Ltd are some of the leading companies operating in the North America encapsulated gaskets and seals market.

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