

North America Form-In-Place Gasket Market Forecast to 2030 - Regional Analysis - by Application (Marine, Automotive, Electrical and Electronics, Aerospace, Lighting, and Others)

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Abstracts

The North America form-in-place gasket market is expected to grow from US\$ 199.47 million in 2022 to US\$ 277.77 million by 2030. It is estimated to record a CAGR of 4.2% from 2022 to 2030.

Integration with Industry 4.0 Technologies Fuels North America Form-In-Place Gasket Market

Industry 4.0 technologies enable the automation of manufacturing processes, including the application of form-in-place gaskets. Automated systems enhance efficiency, reduce production time, and minimize errors. Integration with smart sensors allows real-time monitoring of various parameters during the gasket application process. This includes monitoring material dispensing, curing conditions, and quality control, leading to improved product consistency and reliability. The data analysis related to form-in-place gasket production helps manufacturers to identify opportunities for optimization, reduce waste, and enhance overall process efficiency. Advanced technologies facilitate advanced quality control measures, ensuring that form-in-place gaskets meet stringent standards. Traceability features allow manufacturers to track and trace each product throughout the production process, enhancing accountability and meeting quality assurance standards. Collaborative robots and human-machine collaboration technologies can be integrated into form-in-place gasket manufacturing process. Parker Hannifin Corp offers ParPHorm, a product line consisting of a formulation developed to be robotically dispensed onto small housings and then cured. Industry 4.0 enables remote monitoring and control of manufacturing processes. Manufacturers can oversee

gasket production from remote locations, making it easier to manage multiple production facilities. Therefore, integration with Industry 4.0 technologies is a potential trend in the form-in-place gasket market.

North America Form-In-Place Gasket Market Overview

In North America, passenger vehicles are the most common mode of transportation, and their use is increasing with the rising per capita income. Form-in-place gaskets offer a precise and customizable sealing method, making them well-suited for the intricate designs and evolving technologies in the automotive sector. Form-in-place gaskets also play a crucial role in ensuring air- and fluid-tight seals in various automotive systems, contributing to improved fuel efficiency and compliance with environmental regulations. According to the International Organization of Motor Vehicle Manufacturers (OICA), vehicle production in North America increased by 10%, from ~13.5 million in 2021 to 14.8 million vehicles in 2022. As automakers in North America strive to meet stringent emission standards and create sustainable vehicles, the demand for high-performance sealing solutions such as form-in-place gaskets has seen a notable growth. According to the International Energy Agency, electric car sales accounted for 630,000 in 2021 in the US. In addition, according to the same source, between August 2022 (when the Inflation Reduction Act was passed) and March 2023, major electric vehicle and battery makers announced investments totalling a minimum of US\$ 52 billion in electric vehicle supply chains in North America. Form-in-place gaskets are employed in EV battery enclosures and powertrain components, providing effective sealing against environmental factors and contributing to the safety and longevity of electric vehicles. As the electric vehicle market continues to expand in North America, the demand for form-in-place gaskets is likely to grow in the coming years. Furthermore, the growing electronics and consumer goods industries in North America propels the demand for form-in-place gaskets. These gaskets are used in electronic devices and appliances to provide effective sealing against environmental factors such as dust and moisture. According to IPC International, Inc., electronics manufacturers in the US directly employ more than 1.3 million workers, contribute US\$ 165.7 billion in labour income and US\$ 307.6 billion to GDP, and produce nearly US\$ 710 billion in output. The electronics manufacturing sector plays a crucial role in the national economy, resulting in 1.6% of GDP and 0.7% of jobs. As consumers continue to adopt and rely on various electronic products, manufacturers seek reliable gasket solutions to ensure the longevity and performance of these devices. This trend underscores the critical role these gaskets play in ensuring the integrity of seals across a wide range of applications in the region.

North America Form-In-Place Gasket Market Revenue and Forecast to 2030 (US\$

Million)

North America Form-In-Place Gasket Market Segmentation

The North America form-in-place gasket market is segmented into application and country.

Based on application, the North America form-in-place gasket market is segmented into marine, automotive, electrical and electronics, aerospace, lighting, and others. The electrical and electronics segment held the largest share of the North America form-in-place gasket market in 2022.

Based on country, the North America form-in-place gasket market is segmented into the US, Canada, and Mexico. The US dominated the North America form-in-place gasket market in 2022.

3M Co, Henkel AG & Co KGaA, Parker Hannifin Corp, Modus Advanced Inc, Dow Inc, Compagnie de Saint Gobain SA, Permabond LLC, Bostik SA, HB Fuller Co, and ITW Performance Polymers are some of the leading companies operating in the North America form-in-place gasket market.

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