

Europe Fluoroelastomers Market Forecast to 2030 - Regional Analysis - by Type (Fluorocarbon Elastomers, Fluorosilicone Elastomers, and Perfluorocarbon Elastomers), Application (O-Rings, Seals and Gaskets, Hoses, Molded Parts, and Others), and End User (Automotive, Aerospace, Oil and Gas, Semiconductors, Energy and Power, and Others)

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Abstracts

The Europe fluoroelastomers market is expected to grow from US\$ 358.75 million in 2022 to US\$ 606.05 million by 2030. It is estimated to register a CAGR of 6.8% from 2022 to 2030.

Growing Oil and Gas Industry Fuels Europe Fluoroelastomers Market

Many processes involved in the oil and gas industry require high temperature and pressure and various chemicals. Fluoroelastomers withstand harsh chemical exposure and offer retention of critical properties under extreme conditions. Hence, fluoroelastomers are used in drilling equipment, pipeline systems, seals, and gaskets in the oil and gas sector. Moreover, the use of fluoroelastomers reduces operational costs and downtime in the oil and gas industry. Fluoroelastomers maintain overall operational efficiencies and offer protection against operational failures.

According to statistics from the Global Oil Infrastructure Tracker's 2023 annual survey, there are currently 9,100 km of oil transmission pipes being constructed worldwide, and another 21,900 km are planned. Capital investment for these pipelines under development is estimated at US\$ 131.9 billion.

According to Global energy Monitor's Europe Gas Tracker, the EU planned to raise capacity by 24.9% to 160.2 billion cubic meters per year (bcm/y) by the end of February 2022. The projected expenditure for this development is ~US\$ 28.4 billion, which includes US\$ 13.2 billion for new LNG import terminals and ~US\$ 15.2 billion for new gas import pipelines. Some of the noteworthy projects include:

? A total of 16 gas pipelines totaling 3,200 kilometers (km) in length and ~US\$ 7 billion in construction are now under construction.

? Currently in the pre-construction stage, 62 gas pipeline projects have a combined length of 12,500 km and an estimated cost of ~US\$ 32 billion.

? The EU is building four LNG import terminals or terminal extensions at a cost of US\$ 1 billion, with a known capacity of 4.3 billion cubic meters per year.

? At a cost of US\$ 12.2 billion, 26 proposed LNG import terminals or terminal expansions would add 102.7 bcm/y.

Therefore, the growth of the oil and gas industry contributes to the rise in oil and gas projects, which drives the demand for fluoroelastomers across the region.

Europe Fluoroelastomers Market Overview

Germany, France, Italy, the UK, and Russia are the main countries in the fluoroelastomers market in Europe. In April 2023, the European Council and the European Parliament agreed to invest US\$ 3.6 billion in European Union funds to attract a further US\$ 43.7 billion in private investment to build Europe's semiconductor manufacturing capabilities. Like the US, Europe is growing with a fast-changing semiconductor marketplace as governments worldwide increasingly adopt more restrictive policies on importing and using chips from overseas. The semiconductor industry heavily relies on ultra-pure environments to prevent contamination and ensure the quality of semiconductor products. Fluoroelastomers are crucial in this regard as they do not release particles or outgas, making them ideal for maintaining the stringent cleanliness standards of cleanrooms and semiconductor fabrication equipment. This is especially important for the production of microchips and other electronic components. The automobile industry is one of the most rapidly growing and most important industries in the European economy. According to the European Commission, Europe is among the world's largest producers of motor vehicles. The automobile industry employs 13.8 million Europeans directly and indirectly, accounting for 6.1% of overall

employment in the EU. According to the International Organization of Motor Vehicle Manufacturers (OICA), the EU produced 16.2 million vehicles in 2022. Europe has some of the strictest emissions regulations in the world. Automotive manufacturers are developing more fuel-efficient and environmentally friendly vehicles to meet these standards. Fluoroelastomers are essential for sealing and gasket applications in engines and exhaust systems, where they help maintain airtight and leak-free seals, ultimately contributing to reduced emissions. All these factors are expected to drive the demand for fluoroelastomers in Europe.

Europe Fluoroelastomers Market Revenue and Forecast to 2030 (US\$ Million)

Europe Fluoroelastomers Market Segmentation

The Europe fluoroelastomers market is segmented into type, application, end user, and country.

Based on type, the Europe fluoroelastomers market is categorized into fluorocarbon elastomers, fluorosilicone elastomers, and perfluorocarbon elastomers. The fluorocarbon elastomers segment held the largest share of the Europe fluoroelastomers market in 2022.

In terms of application, the Europe fluoroelastomers market is segmented into O-rings, seals and gaskets, hoses, molded parts, and others. The O-rings segment held the largest share of the Europe fluoroelastomers market in 2022.

By end user, the Europe fluoroelastomers market is categorized into automotive, aerospace, oil and gas, semiconductors, energy and power, and others. The automotive segment held the largest share of the Europe fluoroelastomers market in 2022.

Based on country, the Europe fluoroelastomers market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. Germany dominated the Europe fluoroelastomers market in 2022.

3M Company, AGC Inc, Daikin Industries Ltd, Gujarat Fluorochemicals Ltd, HaloPolymer, Shin-Etsu Chemical Co Ltd, Solvay SA, and The Chemours Co are some of the leading companies operating in the Europe fluoroelastomers market.

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