

## **North America Silicones Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)**

Market Report | 2025-08-13 | 146 pages | EMR Inc.

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### **Report description:**

The North America silicones market size attained a value of USD 4.98 Billion in 2024 . The market is expected to grow at a CAGR of 5.30% between 2025 and 2034, reaching almost USD 8.35 Billion by 2034 .

Growing demand for silicones in the personal care, renewable energy and healthcare sector are the major drivers for the North America silicones market. In 2017, the region had close to one-fourth of the market share in the global market and was the largest market as well as the leading exporter of silicone additives. It also represented the largest market for medical grade silicones in 2017.

### Key Trends and Recent Developments

Growing popularity of silicone as a packaging material; increasing focus on sustainability; technological advancements; and advancements in material sciences are favouring the North America silicones market expansion.

June 2024

Kits Eyecare Ltd. announced the launch of its KITS branded Daily Contact Lens line-up. The new 30-pack of KITS Daily Silicone Hydrogel lenses are made from a third generation Silicone Hydrogel with excellent oxygen permeability to ensure superior in-eye comfort.

February 2024

Maison Demarle announced the launch of Flexipan, a flexible non-stick silicone and fibreglass moulds for customers in the United States. The moulds, made from fibreglass or 100% platinum food-grade silicone, offer unmatched flexibility for multipurpose uses.

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July 2023

Sientra High-Strength Cohesive Silicone Gel Breast Implants was launched in Canada by Clarion Medical Technologies. The breast implants feature advanced generational gel technology and are made with highly durable silicone elastomer shell designed to minimise rupture and retain the shape of the implants.

October 2022

Dow announced the launch of silicone ink, SILASTIC LCF 9600 M Textile Printing Ink Baseopens, that can be used for printing on cotton and synthetic fabrics, especially elastic garments. The silicone ink is designed for improved hand feel and an increased matte effect and offers high elongation, excellent wash durability, and very soft low tack touch.

Rising popularity of silicone as a packaging material

Silicone-based products such as silicone lids, bags, and containers, due to their durability, reusability, and low-toxicity, are gaining popularity as packaging materials amid the introduction of stringent government regulations banning the use of single-use plastics. With the growing demand for unique, personalised, and innovative packaging among customers, brands are leveraging silicone-based products to create distinctive packaging.

Growing focus on sustainability

The growing emphasis on sustainability is shaping the North America silicone market trends and dynamics. Silicones are renowned for their durability, low toxicity, and long lifespan, making them an ideal material in sustainable product development. Besides, manufacturers are increasingly sourcing eco-friendly and renewable raw materials and bio-based feedstocks in silicone production amid the rising environmental consciousness.

Technological advancements

Key players are leveraging advanced technologies such as machine learning, artificial intelligence (AI) and automation in silicone manufacturing to monitor production processes in real-time, enhance the precision of end products, and facilitate predictive maintenance. In the forecast period, innovations in extrusion and moulding techniques aimed at enabling the development of silicones with customised designs and complex shapes is anticipated to fuel the market.

Advancements in material sciences

Advancements in material sciences are leading to the development of innovative silicone blends with superior properties like enhanced flexibility, improved temperature resistance, and increased durability. Moreover, there is a rising trend of embedding nanoparticles within the silicone matrix to create materials that are resilient under extreme conditions for use in sectors like automotive and aerospace.

North America Silicones Market Segmentation

Silicones are synthetic polymers with highly stable silicon-oxygen backbone, having hydrogen and/or hydrocarbon groups attached to the silicon atoms. Due to its properties like adhesion, lubrication, antifoaming, water repellent, flexibility and thermal and UV stability, silicones find their applications across a wide range of industries.

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## Market Breakup by Type

- Elastomers
- Fluids
- Gels
- Resins

## Market Breakup by Application

- Industrial Process
- Construction Materials
- Home and Personal Care
- Transportation
- Energy
- Healthcare
- Electronics
- Others

## Market Breakup by Segment

- D5
- Emulsion

## Market Breakup by Region

- United States
- Canada

Due to its thermal stability, silicone elastomers find their application in power distribution, wire insulation, lamps and lighting segments. Silicones are used to make lightweight automobile components resulting in high fuel efficiency and lower emissions. They form an integral part of the medical sector because of its biocompatibility and used to make various medical devices like pacemakers and prosthetics.

## Market Analysis

The North American silicones market is being driven by a rise in demand in personal care, healthcare and medical, transportation, and renewable energy sectors. In the medical sector, there has been a rise in demand for silicones to make aesthetic implants, heart implants and other medical instruments inserted into the body of the patients. Lightweight automotive components made of silicones are also gaining favour in the transportation industry in the region. In the energy sector, silicones are being used in the windmill shafts and solar power cells in North America. The construction and the electronic sectors are other significant application sectors in the region.

North America is the leading market for silicone additives due to a rise in demand in plastics and composites, paper and pulp, paints and coatings, chemical manufacturing, and food and beverage. The region is also a leading market for medical grade silicones driven by robust growth in the healthcare industry and the availability of several large manufacturers in the region.

The region is self-sufficient in terms of its silicones supply and exports its supply surplus to countries with a deficiency of supply

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like Mexico. The region exports pharma-grade silicones to Asia Pacific countries like China, Korea and Japan owing to a rise in demand in healthcare and personal care industries. In 2016, China imported 17% of its silicones from the US. Although Europe and North America are both self-sufficient regions in terms of their silicones demand, trade still flows between the two regions driven by demand for silicones of specific quality and grade based on downstream applications.

The report by EMR provides a detailed analysis of the silicones markets in the United States of America and Canada. The report also analyses the feedstock market for North America silicones.

### Competitive Landscape

Key North America silicone market players are actively investing in research and development (R&D) activities to develop innovative silicone products with improved properties such as chemical resistance, heat resistance, electrical conductivity, and chemical stability. Silicone companies in North America are also focusing on the development of bio-based silicones that are derived from renewable resources amid the growing trend of sustainability.

#### Elkem Silicones

Elkem Silicones, founded in 1904 and headquartered in Oslo, Norway, is one of the world's largest integrated silicone manufacturers. The company serves diverse sectors, including cosmetics, energy, automotive and aerospace, personal care, construction, paper and textile coating, and healthcare, among others. Its R&I laboratories, sales offices, and production sites are located in North America, Europe, the Asia Pacific, and South America.

#### Wacker Chemie AG

Wacker Chemie AG, founded in 1914 and headquartered in Munich, Germany, is one of the world's most research-intensive biotechnology and chemical companies. It is also one of the largest silicon manufacturers in the world and boasts a portfolio of over 2,800 innovative and specialised products. Its silicone products find applications in different sectors such as paper and textile, automotive engineering, energy and electronics, and construction, among others.

#### Dow Chemical Company

Dow Chemical Company, established in 1897 and headquartered in Michigan, United States, is a prominent material science company that serves customers in different sectors, including consumer goods, mobility, packaging, and infrastructure. Boasting manufacturing sites in around 30 countries and employing nearly 36,000 people, the company delivered sales of around USD 43 billion in 2024.

#### Evonik Industries AG

Evonik Industries AG, established in 2007 and headquartered in Essen, Germany, is a renowned speciality materials company. Boasting 33,000 employees, the company aims to create sustainable, innovative, and profitable solutions for its customers. Active in over 100 countries across the world, it generated sales of EUR 15.3 billion in 2023.

Other key players in the North America silicone market include Momentive Performance Materials Inc. and Siltech Corporation, among others.

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