

Silicones and Siloxanes Market Size Analysis - Market Share, Forecast Trends and Outlook Report (2025-2034)

Market Report | 2025-08-13 | 160 pages | EMR Inc.

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Report description:

The global Silicones and Siloxanes market reached a volume of about 6.23 MMT in 2024 , the market is further expected to grow at a CAGR of 5.80% during 2025-2034 to reach a volume of 10.95 MMT by 2034 .

The global silicones and siloxanes market is being driven by their rising demand in the personal care industry. Since silicones provide a solid, robust, weather-resistant, and UV-resistant seal with outstanding adhesion, they are used in the production of various construction materials. In addition, they are used for the manufacture of polyurethane foam for building insulation and increasing energy efficiency, while the hydrophobic properties of silicone coatings protect the exterior walls from weather damage.

Market Segmentation

Siloxanes refer to a group of chemical compounds that act as a building block for silicones. It is a man-made saturated silicone-oxygen hybrid in which each silicon atom is connected to one or more organic groups. Among the most common siloxanes are dodecamethylcyclohexasiloxane, decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane, and polydimethylsiloxane. Silicones, also recognized as polysiloxanes, are polymers that are made using repeated units of siloxanes. Due to its advantageous characteristics like durability, resilience, gas permeability, temperature resilience, and resistance to heat, moisture, chemicals, as well as ultraviolet radiation, silicones are commonly used in a wide range of industrial applications.

Market Silicones Market Breakup by Type

- Elastomers
- Fluids
- Resins

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- Gels

Market Silicones Market Breakup by Application

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

Market Siloxanes Market Breakup by Type

- Linear
- Cyclic

Market Siloxanes Market Breakup by Application

- Silicones
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Market Analysis

Silicone polymers and cyclic siloxanes are used in the personal care sector as a solvent for skincare and haircare products. Siloxanes are used in these products because they are odourless and do not cause skin irritation. As the demand for personal care products is rising globally, the silicones and siloxanes market is increasing at a healthy pace. Throughout the food industry, siloxanes are used as an oil substitute for low-calorie food products. In addition, silicones and siloxanes are commonly used in many end-use industries like telecommunications, chemical, and automotive. The growing construction industry has led to infrastructural developments, especially in emerging regions, which have, in turn, contributed to the overall growth of the silicones and siloxanes market.

The chemical composition of the silicones allows it to be generated in a range of configurations, whilst the organic groups attached to the product pave the way for a variety of modifications. This versatility enables the use of silicones in a range of products such as fats, release agents, anti-foaming agents, paint additives, hydrophobic agents, etc. Siloxanes (silicones) are tolerated well by humans and, thus, form an important part of advanced treatment, health care, and nursing practices. Alkylsiloxanes, in particular, dimethylsiloxanes, are commonly used in emulsions, antifoams, and pastes due to low surface tension, high surface motion, strong spread strength, chemical inertness, and thermal stability. Liquid silicone is also used as a

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lubricant as a waterproof sealant used in bathrooms and window fittings, while solid silicone rubber has a broad variety of uses ranging from cake baking to indoor sanitary security. With the rising demand of these products from their application and end-use industries, the silicones and siloxanes market is expected to grow further in the coming years.

Competitive Landscape

The report gives a detailed analysis of the following key players in the global silicones and siloxanes market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Dow Chemical Company
- Wacker Chemie AG
- Momentive Performance Materials Inc.
- Shin-Etsu Chemical Co., Ltd.
- Elkem Silicones
- Others

The comprehensive EMR report provides an in-depth assessment of the silicones and siloxanes market based on the Porter's five forces model along with giving a SWOT analysis.

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