

North America Silicone Market Size, Share & Trends Analysis By Product (Fluids, Gels, Resins, Elastomers), By End-use (Electronics, Construction), And Segment Forecasts, 2024 - 2030

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Abstracts

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North America Silicone Market Growth & Trends

The global North America silicone market size is expected to reach USD 6.69 billion by 2030, registering a CAGR of 5.5% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market is poised for growth due to increasing demand across multiple industries, such as automotive, construction, electronics, healthcare, and consumer goods. Silicone's versatility and wide range of applications, including sealants, adhesives, coatings, and elastomers, make it a sought-after material. In addition, the market is driven by the growing emphasis on sustainability, as silicone offers eco-friendly properties, recyclability, durability, and low toxicity.

The silicone market is expected to perform moderately owing to limited opportunities by market maturity of both manufacturing industries in general and the use of silicones. However, continuous product innovation and ongoing technological developments are expected to promote the application of silicone in emerging markets, such as electric vehicles (EVs) and health & personal care, which, in turn, is expected to fuel the market growth over the forecast period. Moreover, suppliers continue gaining market share through value-added product development and creating inroads into applications that conventionally use other materials.

In terms of product, the fluid segment's dominance is reinforced by the reliability and trust that the industry places in silicone fluids. Their resistance to extreme temperatures, chemical inertness, and low toxicity make them a preferred choice in critical applications. In addition, the ease of handling and formulation flexibility further bolster their popularity among manufacturers. Therefore, the fluid segment has firmly established itself as the go-to solution in the North America silicone industry, meeting the diverse demands of different industries and solidifying its position as the primary driver of the market's growth.

In terms of end-use, the industrial processes segment led the market in 2022, which is attributed to the remarkable properties of silicone that cater to a wide array of industrial applications. Silicone's unique characteristics, such as high thermal stability, excellent electrical insulation, and resistance to chemicals, make it highly sought-after in various industrial settings. Silicone finds extensive use in industries such as automotive, electronics, construction, and aerospace, where it serves as a crucial component in coatings, lubricants, adhesives and sealants. Its ability to withstand extreme temperatures and harsh environments makes it invaluable in industrial processes, where reliability and performance are of utmost importance.

North America Silicone Market Report Highlights

In terms of product, The fluid product segment led the market and accounted for a revenue share of over 45.0% in 2023, which is attributed to rising product demand from the end-use industries such as electronics, transportation, construction, healthcare, personal care, and consumer goods, energy, and industrial processes

Silicone fluid offers resistance to extreme temperatures, chemical inertness, and low toxicity making them a preferred choice in critical applications. In addition, the ease of handling and formulation flexibility further bolster their popularity among manufacturers

Expanding manufacturing base and increasing investments in advanced technologies for vehicular production are expected to bring about a new era of automobiles, positively influencing the market for silicone

The industrial processes segment led the market and accounted for a significant revenue share in 2023. This is attributed to the remarkable properties of silicone that

cater to a wide array of industrial applications. Silicone's unique characteristics, such as high thermal stability, excellent electrical insulation, and resistance to chemicals, make it highly sought after in various industrial settings

In terms of region, the U.S. silicone market held the largest revenue share of 89.5% in 2023. This is attributed to its robust industrial and economic landscape. The U.S. is home to a diverse range of industries, such as automotive, electronics, healthcare, and construction, which are significant consumers of silicone-based products

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation & Scope
- 1.2 Market Definitions
- 1.3 Information Procurement
 - 1.3.1 Information Analysis
 - 1.3.2 Market Formulation & Data Visualization
 - 1.3.3 Data Validation & Publishing
- 1.4 Research Scope And Assumptions
 - 1.4.1 List Of Data Sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Snapshot 2022
- 2.2 Segment Snapshot
- 2.3 Competitive Landscape Snapshot

CHAPTER 3 NORTH AMERICA SILICONE MARKET: VARIABLES AND TRENDS

- 3.1 Market Lineage Outlook
 - 3.1.1 Global Silicone Market Silicone Market Outlook
- 3.2 Penetration & Growth Prospect Mapping
- 3.3 Industry Value Chain Analysis
 - 3.3.1 Raw Material Trends
 - 3.3.2 Raw Material Price Analysis
- 3.4 Technology Overview
- 3.5 Analysis of Potential Substitute Material
- 3.6 Regulatory Framework
- 3.7 Market Dynamics
 - 3.7.1 Market Driver Impact Analysis
 - 3.7.1.1 Growing Construction Activities Are Pushing The Demand For Silicone
 - 3.7.1.2 Increasing Demand From Various End-Use Industries
 - 3.7.2 Market Restraint Impact Analysis
 - 3.7.2.1 Stringent Regulations
 - 3.7.3 Industry Challenges Analysis
- 3.8 Industry Analysis Tools
 - 3.8.1 Porter's Analysis

- 3.8.2 Macroeconomic Analysis
- 3.9 Eastern European Geopolitical Implication Overview
- 3.10 Impact of COVID-19 on the North America Silicone Market

CHAPTER 4 NORTH AMERICA SILICONE MARKET: PRODUCT ESTIMATES & TREND ANALYSIS

- 4.1 Product Movement Analysis & Market Share, 2022 & 2030
- 4.2 Product Movement Analysis & Market Share, 2022 & 2030
- 4.3 North America Silicone Market Estimates & Forecast, By Product (Kilotons) (USD Million)
 - 4.3.1 Fluids
 - 4.3.1.1 Straight Silicone Fluids
 - 4.3.1.2 Modified Silicone Fluids
 - 4.3.2 Gels
 - 4.3.3 Resins
 - 4.3.4 Elastomers
 - 4.3.4.1 High-Temperature Vulcanized (Htv)
 - 4.3.4.2 Liquid Silicone Rubber
 - 4.3.4.3 Room Temperature Vulcanized (Rtv)
 - 4.3.5 Others

CHAPTER 5 NORTH AMERICA SILICONE MARKET: END-USE ESTIMATES & TREND ANALYSIS

- 5.1 End-use Movement Analysis & Market Share, 2022 & 2030
- 5.2 End-use Movement Analysis & Market Share, 2022 & 2030
- 5.3 North America Silicone Market Estimates & Forecast, By End-use (Kilotons) (USD Million)
 - 5.3.1 Electronics
 - 5.3.2 Transportation
 - 5.3.3 Construction
 - 5.3.4 Healthcare
 - 5.3.5 Personal Care And Consumer Goods
 - 5.3.6 Energy
 - 5.3.7 Industrial Processes
 - 5.3.8 Others

CHAPTER 6 NORTH AMERICA SILICONE MARKET: REGIONAL ESTIMATES &

TREND ANALYSIS

6.1 North America Silicone Market: Regional Outlook

6.2 North America

6.2.1 North America Silicone Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.2.2 U.S.

6.2.2.1 U.S. Silicone Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.2.3 Canada

6.2.3.1 Canada Silicone Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

6.2.4 Mexico

6.2.4.1 Mexico Silicone Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

CHAPTER 7 NORTH AMERICA SILICONE MARKET - COMPETITIVE LANDSCAPE

7.1 Recent Developments & Impact Analysis, By Key Market Participants

7.2 Vendor Landscape

7.2.1 Company Categorization

7.2.2 List Of Key Distributors And Channel Partners

7.2.3 List Of Potential Customers/End-Use

7.3 Portfolio Analysis/Kraljic Matrix

7.4 Competitive Dynamics

7.4.1 Company Market Position Analysis

7.5 Company Heat Map Analysis

7.6 Strategy Mapping

7.6.1 Expansions

7.6.2 Mergers & Acquisitions

7.6.3 Collaborations

7.6.4 New Product Launches

CHAPTER 8 NORTH AMERICA SILICONE MARKET - COMPANY PROFILE

8.1 CHT Group

8.2 Dow Inc.

8.3 Elkem ASA

8.4 Evonik Industries

- 8.5 GELEST, INC.
- 8.6 Jiangsu Mingzhu Silicone Rubber Material Co., Ltd.
- 8.7 KCC CORPORATION
- 8.8 Kaneka Corporation
- 8.9 Momentive
- 8.10 Shin-Etsu Chemical Co. Ltd
- 8.11 Wacker Chemie AG
- 8.12 HEXPOL AB.
- 8.13 Silchem Inc.
- 8.14 Specialty Silicone Products, Inc.
- 8.15 Illinois Tool Works Inc.
- 8.16 Abbvie Inc.
- 8.17 CRI-SIL Silicone Technologies, LLC

List Of Tables

LIST OF TABLES

Table 1 North America Silicone Market Estimates and Forecast, By Product, 2018 - 2030 (Kilotons)

Table 2 North America Silicone Market Estimates and Forecast, By Product, 2018 - 2030 (USD Million)

Table 3 North America silicone market estimates and forecasts, by straight silicone fluids, 2018 - 2030 (Kilotons) (USD Millions)

Table 4 North America silicone market estimates and forecasts, by modified silicone fluids, 2018 - 2030 (Kilotons) (USD Millions)

Table 5 North America silicone market estimates and forecasts, by high-temperature vulcanized (HTV), 2018 - 2030 (Kilotons) (USD Millions)

Table 6 North America silicone market estimates and forecasts, by liquid silicone rubber, 2018 - 2030 (Kilotons) (USD Millions)

Table 7 North America silicone market estimates and forecasts, by room temperature, vulcanized (RTV), 2018 - 2030 (Kilotons) (USD Millions)

Table 8 North America Silicone Market Estimates and Forecast, By End-use, 2018 - 2030 (Kilotons)

Table 9 North America Silicone Market Estimates and Forecast, By End-use, 2018 - 2030 (USD Million)

Table 10 Recent Developments & Impact Analysis, By Key Market Participants

List Of Figures

LIST OF FIGURES

- Fig. 1 Activated Carbon Market Segmentation
- Fig. 2 Information Procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Production And Validation
- Fig. 5 Data Validating & Publishing
- Fig. 6 Activated Carbon Market Snapshot
- Fig. 7 Activated Carbon Market Segmental Outlook, 2023 (Kilotons) (USD Million)
- Fig. 8 Activated Carbon Market: Competitive Insights
- Fig. 9 Global Activated Carbon Market, 2023 (Kilotons) (USD Million)
- Fig. 10 Global Activated Carbon Market Value Chain Analysis
- Fig. 11 Activated Carbon Market Dynamics
- Fig. 12 Activated Carbon Market: Porter's Five Forces Analysis
- Fig. 13 Activated Carbon Market: PESTEL Analysis
- Fig. 14 Activated Carbon Market Analysis & Segment Forecast, By Type, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 15 Activated Carbon Market Analysis & Segment Forecast, Powdered Type. 2018 - 2030 (Kilotons) (USD Million)
- Fig. 16 Activated Carbon Market Analysis & Segment Forecast, Granular Type, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 17 Activated Carbon Market Analysis & Segment Forecast, Other Types, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 18 Activated Carbon Market Analysis & Segment Forecast, By Application, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 19 Liquid Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 20 Gas Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 21 Activated Carbon Market Analysis & Segment Forecast, By End Use, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 22 Activated Carbon Market Analysis & Segment Forecast, for Water Treatment Chemicals, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 23 Activated Carbon Market Analysis & Segment Forecast, for Food & Beverage Processing, 2018 - 2030 (Kilotons) (USD Million)
- Fig. 24 Activated Carbon Market Analysis & Segment Forecast, for Pharmaceutical &

Medical, 2018 - 2030 (Kilotons) (USD Million)

Fig. 25 Activated Carbon Market Analysis & Segment Forecast, for Automotive, 2018 - 2030 (Kilotons) (USD Million)

Fig. 26 Activated Carbon Market Analysis & Segment Forecast, for Air Purification, 2018 - 2030 (Kilotons) (USD Million)

Fig. 27 Activated Carbon Market Analysis & Segment Forecast, for Other End Uses, 2018 - 2030 (Kilotons) (USD Million)

Fig. 28 Activated Carbon Market, By Region, 2023 & 2030 (%)

Fig. 29 North America Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 30 U.S. Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 31 Canada Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 32 Mexico Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 33 Europe Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 34 Germany Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 35 UK Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 36 France Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 37 Italy Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 38 Spain Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 39 Asia Pacific Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 40 China Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 41 India Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 42 Japan Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 43 South Korea Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 44 Australia Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030

(Kilotons) (USD Million)

Fig. 45 Central & South America Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 46 Brazil Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 47 Argentina Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 48 Middle East & Africa Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 49 Saudi Arabia Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 50 South Africa Activated Carbon Market Analysis & Segment Forecast, 2018 - 2030 (Kilotons) (USD Million)

Fig. 51 Activated Carbon Market: Company Categorization

Fig. 52 Activated Carbon Market: Company Market Share Analysis

Fig. 53 Activated Carbon Market: Company Market Positioning Analysis

Fig. 54 Activated Carbon Market: Strategy Mapping

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