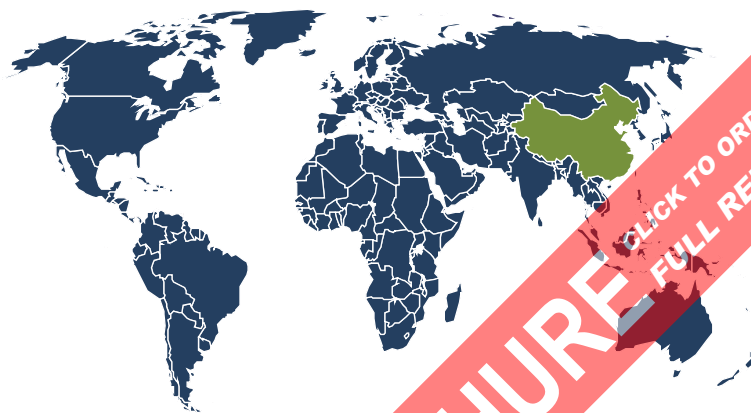




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Silicones: China

October 2021



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About This Report

Scope

This report forecasts to 2025 silicone demand in nominal US dollars at the manufacturer level in China. Total demand is segmented by product in terms of:

- elastomers
- fluids
- resins
- gels, foams, and pastes

Total demand is also segmented by market as follows:

- construction
- electrical equipment
- transportation
- chemical
- electronic products
- other markets such as personal care, medical and healthcare, and machinery

To illustrate historical trends, total demand is provided in annual series from 2010 to 2020; the various segments are reported at five-year intervals for 2010, 2015, and 2020.

For the purposes of this report, silicones are defined as polymers of silicon and oxygen. To avoid double counting, silicone demand is determined at the producer level and includes only basic products such as elastomers, fluids, resins, and gels. Siloxanes used as silicone products themselves (as in personal care product formulations) are also included. Foam control agents used in foam insulation are included in the chemicals – rather than the construction – market.

Excluded are:

- downstream silicone products such as adhesives, sealants, lubricants, defoamers, and molded rubber goods
- siloxanes used as raw materials for silicones, although siloxanes used as silicone products themselves (as in personal care product formulations) are included
- silanes, including chlorosilane intermediates and silane coupling agents, which are not defined as silicone polymers
- fluids used as intermediates in the production of other silicone product types, including gels, elastomers, and resins

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate at that prevailing in 2020.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Silicones: China (FC55022) is based on *Global Silicones*, a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 5 | HS Codes Related to Silicone

HS Code	Definition
3910	Silicones in primary forms

Source: United Nations Statistics Division

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a

variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Global Silicones

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Gaskets & Seals

Global Adhesives & Sealants

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Global Disposable Medical Supplies

Global Electric Power Transmission & Distribution Equipment

Global Gaskets & Seals

Global Lubricants

Global Medical Thermoplastic Elastomers

Global Paint & Coatings

Global Rubber Processing Chemicals

Global Thermoplastic Elastomers

Liquid-Applied Roof Coatings

Liquid Silicone Rubber

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Construction: United States

COVID-19 Market Impact Analysis

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Housing: China

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Global Macroeconomy

Global Medium- & Heavy-Duty Trucks & Buses

Lubricants: China

Manufacturing: United States

Medical Equipment & Supplies: United States

Medical Services: United States

Paint & Coatings: China

Renewable Energy: United States

Rubber Processing Chemicals: China

Transport Equipment: United States

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ICIS Chemical Business

Plastics News

Rubber & Plastics News

Agencies & Associations

Global Silicones Council

International Monetary Fund

Organisation for Economic Co-operation and Development

Plastics Industry Association

Silicones Environmental, Health, and Safety Center

United Nations Comtrade

United Nations Environment Programme

World Bank