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# Global Silicones

June 2017



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# About This Report

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## Scope & Method

This report forecasts global demand in 2021 for silicones by product, market, and major world region in US dollars at the manufacturers' level. Product segments include:

- elastomers
- fluids
- resins, gels, and other products.

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; and not downstream silicone products such as adhesives, sealants, lubricants, defoamers, and molded rubber goods. Siloxanes used as raw materials for silicones are not included, although siloxanes used as silicone products themselves (as in personal care product formulations) are included. Silanes, including chlorosilane intermediates and silane coupling agents, are not defined as silicone polymers and are thus excluded.

Reported markets encompass:

- construction
- electrical and electronic products
- transportation
- health and personal care
- chemicals and other markets such as machinery, textiles, and plastics.

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, product, market, and regional demand (including product and market segments) are provided for 2006, 2011, and 2016.

This report quantifies trends in terms of compound annual growth rates (CAGRs), which, by definition, employ in their calculation only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the trend beginning in the base year and ending in the forecast year. Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends and events, as well as their expected impact over the forecast period. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

## About This Report

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

## Sources

*Global Silicones* (FW55022) is based on 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 including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international 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 9 | Industry Codes Related to Silicone

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
325188	All Other Basic Inorganic Chemical Manufacturing	2819	Industrial Inorganic Chemicals, NEC
325199	All Other Basic Organic Chemical Manufacturing	2869	Industrial Organic Chemicals, NEC
325211	Plastics Material and Resin Manufacturing	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers
325212	Synthetic Rubber Manufacturing	2822	Synthetic Rubber (Vulcanizable Elastomers)
325520	Adhesive Manufacturing	2891	Adhesives and Sealants

Source: US Census Bureau

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## Resources

### The Freedonia Group

*Global Silicones Market*, June 2017

### Freedonia Industry Studies

*Architectural Paint Market in the US*, February 2017

*Manufacturing (OEM) Coatings Market in the US*, January 2017

*Synthetic Lubricants & Functional Fluids in the US*, January 2017

*Gasket & Seal Market in the US*, December 2016

*Global Emulsion Polymers Market*, November 2016

*World Industrial Silica Sand*, October 2016

*World Insulation*, July 2016

*World Paint & Coatings*, June 2016

*Silicones*, March 2016

### Freedonia Focus Reports

*Crude Petroleum: United States*

*Emulsion Polymers: United States*

*Gaskets & Seals: United States*

*Industrial Silica Sand: United States*

*Insulation: United States*

*Labels: United States*

*Manufacturing (OEM) Coatings: United States*

*Paint & Coatings: United States*

*Polyurethane: United States*

*Recovered Paper: United States*

*Rubber: United States*

*Synthetic Lubricants & Functional Fluids: United States*

*Thermoplastic Resins: United States*

*World Emulsion Polymers*

*World Industrial Silica Sand*

*World Insulation*

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### Trade Publications

*Adhesives & Sealants Industry*

*Chemical Engineering*

*Chemical Week*

*European Rubber Journal*

*Global Cosmetic Industry*

## About This Report

*ICIS Chemical Business*

*Plastics News*

*Rubber & Plastics News*

### **Agencies & Associations**

Global Silicones Council

Silicones Europe

Silicone Industry Association of Japan