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US Collection

Silicones:

United States

February 2018



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About This Report

Scope & Method

This report forecasts to 2022 US silicone demand in nominal US dollars at the manufacturer level. Total demand is segmented by product in terms of:

- fluids
- elastomers
- resins
- gels
- other products such as foam and pastes

Total demand is also segmented by market as follows:

- industrial
- consumer
- construction
- medical

To illustrate historical trends, total demand is provided in annual series from 2007 to 2017; the various segments are reported at five-year intervals for 2007, 2012, and 2017.

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.

This report 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.

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

Silicones: United States (FF55022) is based on *Silicones Market in the US*, 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 5 | Industry Codes Related to Silicones

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

Source: US Census Bureau

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Resources

The Freedonia Group

Silicones Market in the US, February 2018

Freedonia Industry Studies

Global Industrial Lubricants Market, March 2018

Global Automotive Lubricants Market, December 2017

Liquid-Applied Roof Coatings in the US, November 2017

Global Silicones Market, June 2017

Architectural Paint Market in the US, February 2017

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

Gasket & Seal Market in the US, December 2016

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

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Gaskets & Seals: United States

Global Automotive Lubricants

Global Silicones

Liquid-Applied Roof Coatings: United States

Paint & Coatings: United States

Synthetic Lubricants & Functional Fluids: United States

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Trade Publications

Chemical & Engineering News

ICIS Chemical Business

Plastics News

Plastics Technology

Rubber and Plastics News

Rubber World

Agencies & Associations

American Plastics Council

Occupational Safety & Health Administration

Plastics Industry Association

Silicones Environmental, Health and Safety Center

United States Census Bureau

United States Environmental Protection Agency

United States Food and Drug Administration

United States International Trade Commission