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Global Food-grade Liquid Silicone Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Food-grade Liquid Silicone market size is expected to reach $ 6501 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of food-grade liquid silicone reached 425,000 tons, with an average selling price of US$8,600 per ton. Global total production capacity in 2025 was approximately 500,000 tons, with an average industry gross margin of about 32%. Food-grade liquid silicone is a high-purity organosilicon elastic material prepared using an addition-curing system. It is non-toxic, odorless, resistant to high and low temperatures, aging, and hydrolysis, exhibiting excellent chemical stability and good biocompatibility. It meets the requirements of FDA, LFGB, and other food contact material regulations and can directly contact food and drinking water. This material is mainly processed using liquid injection molding and is widely used in infant pacifiers, food container seals, kitchenware, baking molds, drinking water equipment accessories, coffee machine seals, and smart food equipment components.

Upstream suppliers mainly involve raw material suppliers such as industrial silicon, organosilicon monomers, siloxane intermediates, platinum catalysts, reinforcing fillers, and functional additives. Downstream consumption mainly comes from infant products, food processing equipment, kitchen utensils, drinking water systems, household appliances, and food packaging.

With increasing global consumer focus on food safety and healthy materials, and the continued development of the infant products, high-end kitchenware, and smart home appliance markets, the demand for food-grade liquid silicone is maintaining rapid growth. Future products will upgrade towards higher transparency, lower volatility,

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higher cleanliness, rapid molding, and sustainable environmental protection. Meanwhile, consumption upgrades in emerging markets and stricter food safety standards will continue to unleash market demand, bringing excellent development opportunities and business space to the industry.

The food-grade liquid silicone market is in a phase of steady expansion, driven by rising global food safety standards, rising consumer demand, and the increasing trend of high-performance material substitution. Compared to traditional rubber, PVC, and some thermoplastics, food-grade liquid silicone offers advantages such as being non-toxic and odorless, resistant to high and low temperatures, aging-resistant, hydrolysis-resistant, and having high safety for long-term contact with food. Therefore, its applications are expanding in areas such as infant products, food processing equipment, kitchen utensils, drinking water systems, and smart home appliances. As consumers continue to focus on health, safety, and environmentally friendly products, downstream brands are increasingly demanding high-quality food contact materials, driving the industry's rapid growth.

From a market demand structure perspective, infant products remain one of the most important application areas for food-grade liquid silicone. Pacifiers, baby food preparation tools, and maternal and infant products have extremely high requirements for material purity and safety, creating stable demand for high-end food-grade liquid silicone. Meanwhile, the kitchenware and food processing equipment markets have seen significant growth in recent years, with silicone baking molds, sealing rings, food conveying components, and coffee machine accessories gradually replacing traditional materials. Furthermore, the development of smart water dispensers, water purification equipment, and small household appliances has further expanded the application space of food-grade liquid silicone.

From a technological development trend perspective, food-grade liquid silicone is evolving towards higher transparency, higher fluidity, lower volatility, and faster molding. As liquid injection molding (LIM) technology matures, downstream companies are demanding increasingly higher material processing efficiency and automation capabilities. Simultaneously, the demand for high-end products meeting international standards such as FDA, LFGB, and BfR, as well as low VOC and low leaching requirements, continues to grow. In addition, recyclable, low-carbon production, and green silicone material research and development have become important areas of focus for the industry.

Overall, food-grade liquid silicone belongs to a new materials market with both

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consumer and industrial attributes. Driven by factors such as upgraded food safety regulations, increased maternal and infant consumption, the popularization of healthy living concepts, and the development of smart home appliances, it still has good growth potential in the future. High-end, functional, and environmentally friendly products will become the main development directions of the industry, and companies with advantages in raw material technology, international certification capabilities, and stable customer resources are expected to continue to benefit from market upgrading trends.

This report studies the global Food-grade Liquid Silicone production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Food-grade Liquid Silicone and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Food-grade Liquid Silicone that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Food-grade Liquid Silicone total production and demand, 2021-2032, (Kilotons)
Global Food-grade Liquid Silicone total production value, 2021-2032, (USD Million)
Global Food-grade Liquid Silicone production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Food-grade Liquid Silicone consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Food-grade Liquid Silicone domestic production, consumption, key domestic manufacturers and share
Global Food-grade Liquid Silicone production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Food-grade Liquid Silicone production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Food-grade Liquid Silicone production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Food-grade Liquid Silicone market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Elkem, Stockwell Elastomerics, Silicorex, NEWTOP SILICONE, Shin-Etsu Silicone, CHT Silicones, DOW, STARLIM, ZEKAI,

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Momentive, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Food-grade Liquid Silicone market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Food-grade Liquid Silicone Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Food-grade Liquid Silicone Market, Segmentation by Type:

High Transparency Grade

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High Temperature Resistant Grade

Thermal/Electrical Conductive Grade

Others

Global Food-grade Liquid Silicone Market, Segmentation by Hardness Range:

Hardness Range: Shore A 0 - 20

Hardness Range: Shore A 30 - 50

Hardness Range: Shore A 60 - 80

Global Food-grade Liquid Silicone Market, Segmentation by Viscosity:

Viscosity (mPa?s): 5,000 - 20,000

Viscosity (mPa?s): 20,000 - 100,000+

Others

Global Food-grade Liquid Silicone Market, Segmentation by Application:

Food

Medical

Others

Companies Profiled:

Elkem

Stockwell Elastomerics

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Silicorex

NEWTOP SILICONE

Shin-Etsu Silicone

CHT Silicones

DOW

STARLIM

ZEKAI

Momentive

HONGTU

SQUARE Silicone Materials Company

OTT Silicone

Hanast

Key Questions Answered:
1. How big is the global Food-grade Liquid Silicone market?
2. What is the demand of the global Food-grade Liquid Silicone market?
3. What is the year over year growth of the global Food-grade Liquid Silicone market?
4. What is the production and production value of the global Food-grade Liquid Silicone market?
5. Who are the key producers in the global Food-grade Liquid Silicone market?
6. What are the growth factors driving the market demand?

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