Silicone Additives - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-07-01 | 120 pages | Mordor Intelligence

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Report description:

Silicone Additives Market Analysis

The Silicone Additives Market size is estimated at USD 2.09 billion in 2025, and is expected to reach USD 2.82 billion by 2030, at a CAGR of 6.18% during the forecast period (2025-2030). Robust demand stems from manufacturers seeking additives that keep coatings, polymers, and fluids stable under heat, chemicals, and harsh weather. Regulatory pressure to cut volatile-organic-compound (VOC) emissions is steering formulators toward silicone-rich systems that match performance with compliance . Growth momentum also reflects deeper penetration in thermal management for electric vehicles, bio-based personal-care launches, and rising food-processing automation across emerging economies. Industry consolidation-most notably KCC's take-over of Momentive in 2024-signals a shift toward scale advantages, vertical integration, and faster innovation pipelines.

Global Silicone Additives Market Trends and Insights

Increase in Demand from Personal Care Industry

Consumers gravitate toward light, non-oily textures, prompting formulators to favor silicone fluids for silky spread and lasting moisture. Shin-Etsu's elastomer-in-oil line, for example, builds stable oil-in-water emulsions that meet regional bans on cyclic siloxanes while sustaining the desired skin-feel. Suppliers are rolling out plant-origin C13-15 alkane carriers such as Elkem's PURESIL ORG gels, proving that sensory performance and natural positioning can coexist. Asia-Pacific labels are leveraging these

attributes to bridge gaps with global premium brands, widening the silicone additives market in color cosmetics and sun care.

Growing Focus on Low-VOC Products in Paints and Coatings

Legislators in Europe and North America cap allowable solvent content, making low-VOC compliance a prerequisite rather than a feature. Evonik's TEGO Guard 9000 delivers early-rain resistance in exterior coatings without breaching eco-label thresholds. Siltech has shown that long-chain alkyl silicones lift solids content yet cut VOC totals, letting formulators maintain durability while meeting Green Seal or LEED targets. The ripple effect extends to emerging markets, where builders increasingly specify water-based paints fortified with silicone surface additives for stain repellence and long-term color retention.

Additive Migration at High Temperatures

Above 200 C, low-molecular-weight siloxanes can bleed to surfaces, dulling optical clarity or weakening adhesion. Studies on high-phenyl silicone rubbers reveal improved thermal stability, with only 5% weight loss at 478 C, yet premium grades raise costs. EV traction motors and aerospace ducting need formulations that curb volatilization, pressuring R&D budgets.

Other drivers and restraints analyzed in the detailed report include:

Growing Demand from Food-Processing Industry / Increasing Usage in Medical and Healthcare Applications / Volatile Raw-Material Costs /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Silicone fluids accounted for 39.44% of the silicone additives market in 2024 by revenue, riding on wide use as slip, leveling, and heat-transfer agents in coatings, personal care, and lubricants. Their low surface tension and broad temperature stability underpin a resilient demand base. Emulsions and resins complement fluids by enabling water-borne systems and structural finishes, particularly in construction sealants. In contrast, elastomers address gasket, seal, and medical-tube niches needing lasting elasticity.

Powders and granules, although less than one-quarter of sales, post the fastest 7.65% CAGR through 2030. Their dry format aids 3D printing feedstocks and masterbatch compounding, granting formulators fine rheology control and dust-free dosing. Emerging UV-curable polysiloxane powders simplify on-demand cross-linking for rapid prototypes, shrinking design-to-part cycles and enlarging the silicone additives market size for additive manufacturing. As printer fleets spread beyond aerospace into dental and consumer goods, powdered silicones capture fresh avenues for growth.

The Silicone Additives Market Report is Segmented by Product Form (Fluids and Oils, Elastomers and Gums, and More), Application (Defoamers, Rheology Modifiers, and More), End-User Industry (Food and Beverage, Plastics and Composites, and More), and Geography (Asia-Pacific, North America, Europe, South America, Middle East and Africa). The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

Asia-Pacific sat atop the silicone additives market with 47.34% revenue share in 2024 and is marching at a 7.10% CAGR toward 2030. China's Zhangjiagang and Nanjing clusters anchor upstream siloxane capacity for Wacker and Elkem, ensuring supply proximity to electronics and EV battery giants. India's "Make in India" policy stokes domestic demand for quality-driven coatings

and adhesives, compelling local formulators to incorporate silicone additives for premium finish and durability. Japan and South Korea each foster advanced R&D, channeling silicone additives into high-frequency electronics, photonics, and specialty films.

North America follows as a mature but innovation-rich arena. The United States leads adoption in medical devices and aerospace composites, relying on FDA/USP compliant silicone systems. Dow's silicone recycling pilot in Michigan aims to trim polydimethylsiloxane (PDMS) carbon footprints by 50% and resonates with buyers under ESG mandates. Canada's EV-battery investments and Mexico's automotive clusters promise incremental pull-through for thermal-management additives.

Europe ranks third in size yet first in sustainability stringency. REACH and impending PFAS bans intensify R&D for cyclic-free and bio-based silicone alternatives. Evonik's Smart Effects business line combines siloxane and organic specialties to tackle lightweighting, e-mobility, and digital health markets. Germany and France concentrate vehicle electrification grants, while the United Kingdom emphasizes life-science coatings, collectively protecting a steady flow of high-margin orders.

List of Companies Covered in this Report:

AB Specialty Silicones / Altana AG / Bluestar Silicones / BRB International / Clariant AG / Dow / Elkem ASA / Evonik Industries AG / Jiangsu Maysta Chemical / KCC SILICONE CORPORATION / Momentive / Shin-Etsu Chemical Co., Ltd. / Silibase Silicone / Siltech Corporation / Supreme Silicones India Pvt. Ltd. / The Lubrizol Corporation / Wacker Chemie AG /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

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