

Silicone Fluids Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Electronic Chemicals & Catalysts (Chemicals & Materials)
> ****Source:**** <https://www.mordorintelligence.com/industry-reports/silicone-fluids-market>
> ****Scraped Date:**** 2026-09-17

Executive Market Summary

Market Metric	Details
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Base Market Size	USD 6.23 billion
Projected Forecast (2031)	USD 6.23 billion
Growth Rate (CAGR)	5.22 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market OverviewStudy Period | 2020 - 2031 |
Market Size (2026) | USD 6.23 Billion |
Market Size (2031) | USD 8.03 Billion |
Growth Rate (2026 - 2031) | 5.22 % |
Fastest Growing Market | Asia Pacific |
Largest Market | Asia Pacific |
Market Concentration | High |
Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Silicone Fluids Market Analysis by Mordor IntelligenceSilicone Fluids market size in 2026 is estimated at USD 6.23 billion, growing from 2025 value of USD 5.92 billion with 2031 projections showing USD 8.03 billion, growing at 5.22% CAGR over 2026-2031. Demand for these high-performance polymers is climbing as OEMs and formulators look for fluids that stay stable under extreme temperatures, resist oxidation, and insulate electronics—capabilities that conventional mineral or synthetic hydrocarbons cannot match. Growth is further reinforced by the accelera

ting shift to electric mobility, the rise of hyperscale data centers, and regulatory moves that push manufacturers toward safer, more sustainable chemistries. Although raw-material volatility and tightening environmental standards temper momentum, the silicone fluids market continues to benefit from vertical integration initiatives, recycling investments, and niche-application innovation. Collectively, these forces position the silicone fluids market for steady mid-single-digit expansion over the next five years.

Key Report Takeaways* By product type, straight fluids held 53.62% of the silicone fluids market share in 2025, while modified fluids are on track to post the fastest 6.72% CAGR through 2031.

* By application, personal care commanded 28.41% share of the silicone fluids market size in 2025; textile finishes are projected to lead growth at 6.54% CAGR between 2026-2031.

* By geography, Asia-Pacific accounted for 44.10% revenue share in 2025, and the region is forecast to expand at a 6.34% CAGR to 2031.

Key Market Trends

Market Trends and Insights
Drivers Impact Analysis of Silicone Fluids Market*
Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |
Rising demand from personal care and cosmetics | +1.2% | Global, with EU regulatory shift driving innovation | Medium term (2-4 years) |
Increasing adoption in electric vehicle thermal-management fluids | +0.8% | North America and APAC core, spill-over to EU | Long term (≥ 4 years) |
Growth in high-performance lubricants for industrial automation | +0.6% | APAC manufacturing hubs, expanding to Americas | Medium term (2-4 years) |
Liquid-immersion cooling of hyperscale data centres | +0.7% | Global, concentrated in major cloud regions | Short term (≤ 2 years) |
Precision agriculture anti-foam agents for biostimulant mixtures | +0.4% | Americas and EU agricultural regions | Medium term (2-4 years) |
Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

Industry concentration sits in the mid-range. The top five suppliers hold under 60% combined revenue, leaving room for regional specialists and integrated formulators. KCC's Momentive acquisition consolidates R&D talent in structural silicones and optical fluids, potentially pressuring smaller independents that lack scale. Wacker and Dow lean into circular-economy messaging, unveiling recycling alliances and bio-based pilot plants that resonate with OEMs tracking Scope 3 emissions. Elkem capitalizes on Norway's hydropower to differentiate its carbon footprint, marketing SILCOLAPSE and BLUESIL lines into agriculture and pharmaceuticals.

Technology is the chief battleground. PFAS exit paths, ultra-low-VOC coatings, and immersion-cooling chemistries demand polymer science and application testing that deter fast-follower copycats. Digital twins and AI-guided formulating accelerate customer co-development, shrinking lab iterations and winning sticky, multi-year supply contracts. Price competition persists in legacy straight-fluid grades, but specialized modified fluids command double-digit margins, shielding innovators from raw-material whipsaw.

Smaller players carve niches in localized supply or single-application mastery, such as anti-foam concentrates or optically clear encapsulants. These firms become acquisition targets once growth validates the niche, perpetuating a steady consolidation drumbeat that is likely to continue across the decade.

Silicone Fluids Industry Leaders* Dow Inc.

- * Wacker Chemie AG
- * Shin-Etsu Chemical Co., Ltd.
- * Momentive Performance Materials
- * Elkem ASA

* *Disclaimer: Major Players sorted in no particular order
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Scope Methodology P Space

This market covers silicone fluids sold for industrial and consumer uses where the material stays in fluid form, including straight silicone fluids and modified silicone fluids, and measured as manufacturer level and channel level revenues in USD.

Scope exclusions: Silicone elastomers, silicone resins, and non-silicone substitute fluids are not counted, even if they serve similar end uses.

Segmentation Container

- * By Product Type* Straight Silicone Fluids* Poly-dimethyl Silicone Fluid
- * Methylphenyl Silicone Fluid
- * Methylhydrogen Silicone Fluid
- * Other Straight Silicone Fluids

- * Modified Silicone Fluids* Reactive Silicone Fluid
- * Non-reactive Silicone Fluid

- * By Application* Lubricants and Greases
- * Damping Media
- * Liquid Dielectrics
- * Hydraulic Fluids
- * Defoamers
- * Personal Care
- * Paints and Coating Additives
- * Textile Finishes
- * Pharmaceuticals
- * Other Applications

- * By Geography* Asia-Pacific* China
- * Japan
- * India
- * South Korea
- * ASEAN Countries
- * Rest of Asia-Pacific

- * North America* United States
- * Canada
- * Mexico

- * Europe* Germany
- * United Kingdom
- * France
- * Italy
- * Spain
- * Russia
- * NORDIC Countries
- * Rest of Europe

- * South America* Brazil
- * Argentina
- * Rest of South America
- * Middle-East and Africa* Saudi Arabia
- * South Africa
- * Rest of Middle-East and Africa

Frequently Asked Questions

What is the current valuation of the silicone fluids market?

The silicone fluids market size is valued at USD 6.23 billion in 2026 and is on course to reach USD 8.03 billion by 2031.

Which segment leads the silicone fluids market by application?

Personal care holds the largest 28.41% share, thanks to widespread use in skin- and hair-care formulations.

Why are silicone fluids preferred for EV battery cooling?

Their wide operating-temperature window and excellent dielectric properties prevent thermal runaway while delivering reliable heat transfer.

How is regulation affecting silicone fluids in cosmetics?

The EU restricted cyclic silicones D5 and D6 in 2024, prompting formulators to switch to linear or bio-based alternatives.

Which region dominates the silicone fluids market growth through 2031?

Asia-Pacific leads with a 44.10% share and is forecast to grow at a 6.34% CAGR, driven by integrated supply chains and expanding manufacturing bases.