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Silicone Fluids Market by Type (Straight, Modified), End-Use Industry (Personal Care & Beauty, Textiles, Automotive & Transportation, Industrial, Building & Construction), Region - Global Forecast to 2032

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Abstracts

The global silicone fluids market is projected to grow from USD 6.71 billion in 2024 to USD 10.03 billion by 2032, at a CAGR of 4.4 % during the forecast period. Increasing demand from various industries such as automotive & transportation, personal care & beauty, industrial, textiles, etc., rapid technology development, and a growing focus on sustianability, the future of the silicone fluids in the coming years are promising. End-use industries like cosmetics, automotive, construction, electronics, and healthcare are offering vast opportunities for market growth. The increased demand for silicone fluids anticipated from the personal care industry further enhances their application due to excellent spreadability and easy handling together with their smooth feel and water resistance, with consumers now switching to premium-grade skincare and haircare solutions. The automotive industry, on the other hand, has turned into a potential market for the application of silicone fluids with the inception of the EV era and the surging demand for specialized lubricants, thermal management solutions, and durable coatings.

“Straight are projected to be the second largest segment by type in silicone fluids market”

The straight type silicone fluids ranked second in the global silicone fluids market. It is due to its extensive demand in multiple end-use industries , such as personal care, automotive, construction, and electronics. The fluids with a highly pure silicone polymeric composition and no significant modification are characterized by high thermal stability, good lubricity, very low surface tension, and good water-repellent

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characteristics. Their capacity to retain viscosity over a broad temperature range renders them highly suitable for industrial lubricant applications, foaming agent applications, and as release agents in manufacturing.

“Automotive & transportation is projected to be the second largest segment by end-use industry in silicone fluids market”

The automotive and transportation industry was the second-largest contributor to the global silicone fluids market, on account of the increasingly high demand from end-users for performance-enhancing materials in vehicles, which result in greater durability, efficiency, and safety. Silicone fluids are becoming an important part of an automotive application due to their excellent thermal stability, lubrication properties, repellency to water, and resistance to chemicals. The fluids thus used in automotive lubricants are said to be able to lessen frictional forces, increase fuel economy, and extend the life of vital parts in engines and transmissions as well as in braking systems. In terms of thermal management, silicone fluids are designed to work with coolants, heat transfer fluids, and dielectric fluids so that these vehicles-prevent overheating in internal combustion engines (ICEs), hybrid vehicles, and electric vehicles (EVs). With the advent of both electric mobility and autonomous driving technologies, there is an increasing requirement for sophisticated silicone-based coatings, sealants, and insulating materials, in particular for their use in protecting the battery pack, sensors, and electronic control units (ECUs) from moisture and dust, as well as extreme temperatures.

“North America counts for the second-largest share in silicone fluids market by region”

Silicone fluids market in the North American region registered the second-highest share due to considerable demand from key industries such as automotive, personal care, construction, electronics, and healthcare. The growth of silicone fluids is economically bolstered by an established region-wide industrial base, technical advancement, and high consumer spending. The majority of silicone fluids in North America are consumed by the U.S.A. owing to the high demand from the applications in the personal care and cosmetics market wherein silicone fluids are used extensively in formulating skin care, hair care, and make-up products, owing to properties such as smooth texture, excellent spreadability, and moisture retention. Also, with the booming automotive sector, particularly the growing focus on electric vehicle (EV) adoption, silicone fluids will find growing use in lubricants, coatings, and thermal management solutions.

By Company Type: Tier 1: 25%, Tier 2: 42%, and Tier 3: 33%

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By Designation: C-level Executives: 20%, Directors: 30%, and Others: 50%

By Region: North America: 20%, Europe: 10%, Asia Pacific: 40%, South America: 10%, Middle East & Africa 20%

Notes: Others include sales, marketing, and product managers.

Tier 1: >USD 1 Billion; Tier 2: USD 500 million–1 Billion; and Tier 3:

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