

Silane Market Size, Share & Trends Analysis Report By Product By Application (Paints & Coatings, Adhesives & Sealants, Rubber & Plastics), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Silane Market Growth & Trends

The global Silane market size is expected to reach USD 465.66 million by 2030, according to a new report by Grand View Research, Inc. It is expected to expand at a CAGR of 5.7% from 2024 to 2030. High demand for silane as an adhesion promoter in the adhesives & sealants segment and as a coupling agent in paints & coatings segment is driving the market globally. The extensive use of the product in various types of paints and coatings used in the building & construction industry has led to a rise in its demand. Companies, such as Shin-Etsu Chemical Co., Ltd., Dow Corning, Momentive Performance Materials Inc., Power Chemicals Corporation, and Wacker Chemie AG, are among the top manufacturers of silane for paints & coatings industry.

Silane is used as an adhesion promoter in the coatings industry and is also used as a crosslinking agent, as well as in pigment treatment. It improves the UV resistance, adhesion, water & chemical resistance, flow behavior, and pigment & filler dispersion of coatings. Silane coupling agents enable the paint to display an enhanced performance. Synthetic elastomers and other coatings face adhesion issues after being exposed to water and moisture. Using silane as an adhesion promoter can eliminate these problems.

The growth of the automotive industry on account of the technological advancements

and the rising requirement for silane-based rubber products for tire manufacturing is expected to fuel the market demand globally. Silane is used as a coupling agent between non-black pigments and the polymer backbone in rubber compounding. It allows the rubber to exhibit improved rolling & abrasion resistance, higher compound modulus, and enhanced compression, leading to its usage in tires in the automotive industry.

The automotive industry has been a crucial part of the global economies for many years on account of the presence of multiple international automobile manufacturers across the world. Key multinational automakers including Volkswagen Group, Daimler, Subaru, Hyundai, KIA, Honda Motor Company, Nissan Motor Company, Mitsubishi, Fiat Chrysler Automobiles, Toyota Motor Corporation, Ford Motor Company, and General Motors have been structuring automotive industry on a global scale. The growth of these end-use sectors is anticipated to boost the demand for silane over the forecast period.

Silane Market Report Highlights

In terms of value, mono/chloro silane products led the market with a share of 37.0% in 2023. It is generally used to produce siloxanes. Mono/chloro product type also acts as intermediates in the production of ultrapure silicon, which used in the semiconductor industry, and as protecting agents for intermediates in the pharmaceutical industry.

The paints & coatings segment dominated the market with a revenue share of 28.7% in 2023. Its high share is attributable to the increasing use of products as it is widely used as a raw material in the production of anti-corrosion coatings, which are employed in building & construction, automotive, industrial machinery, and electronics sectors.

Asia Pacific dominated the market and accounted for 49.3% of the global volume in 2023. This is attributed to the expanding manufacturing sector in Vietnam, South Korea, Thailand, China, Japan, and India, which fueled the demand for plastic compounds and rubber substrates in the automotive, industrial machinery, construction, packaging, and electrical & electronics industries.

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