

Silane Market Size Reach US\$ 2.35 Billion by 2027 | CAGR of 5.22%

The global silane market reached a value of US\$ 1.76 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 2.35 Billion by 2027

SHERIDAN, WYOMING, UNITED STATES, September 16, 2022 /EINPresswire.com/ -- According to the latest report by IMARC Group "Silane Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027", The global [silane market reached a value of US\\$ 1.76 Billion](#) in 2021. Looking forward, IMARC Group expects the market to reach US\$ 2.35 Billion by 2027, exhibiting at a CAGR of 5.22% during 2022-2027.

Silane (H₄Si) is a colorless gas prepared using aluminum silicide and hydrochloric acid or an aqueous solution of sodium, ammonium, manganese, and ferrous chloride. It is used in various industrial applications, which include adhesion promoters, coupling agents, crosslinkers, moisture scavengers, resin additives, and surface modifiers. As it reduces capillary water absorption and harmful substances and improves frost resistance, H₄Si finds application as a water-based liquid or as a gel. Besides this, it is also applied to a phenolic-impregnated carbon ablator (PICA) system as a primer on the substrate.

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Note: We are regularly tracking the direct effect of COVID-19 on the market, along with the indirect influence of associated industries. These observations will be integrated into the report.

Market Trends:

H₄Si is widely used in the manufacturing of semiconductors and low-voltage cable insulation of electronic products. It is also applied to substrate materials like glass, metal, paper, plastic, quartz, and elastomer. This, along with the rising trend of smart consumer electronics on account of inflating disposable incomes, rapid urbanization, and the emergence of smart homes, represents one of the major factors stimulating the market growth. Apart from this, it is utilized along with other gases to grow amorphous silicon films that are further employed in the production of solar cells. This, coupled with tax credits, incentives, and price concession on several solar panel components offered by governments of numerous countries, is increasing

the usage of solar power and driving the market. Furthermore, it is gaining traction in treating natural fiber and the production of polycrystalline silicon. Due to the improved crosslinking processes and properties, the applications of H4Si are further expanding in making under-the-floor hot-water heating pipes and foams. This, in confluence with the extensive use of silane in various end use industries across the globe, is creating a positive influence on the market.

Breakup by Product:

- Alkyl Silane
- Sulfur Silane
- Amino Silane
- Vinyl Silane
- Epoxy Silane
- Methacrylate Silane
- Mono/Chloro Silane
- Others

Breakup by Application:

- Coupling Agents
- Adhesion Promoters
- Hydrophobing and Dispersing Agents
- Moisture Scavengers
- Silicate Stabilizers
- Others

Breakup by End Use Industry:

- Paints and Coatings
- Electronics and Semiconductors
- Rubber and Plastics
- Adhesives and Sealants
- Others

Market Breakup by Region:

- North America (United States, Canada)
- Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, Others)
- Europe (Germany, France, United Kingdom, Italy, Spain, Russia, Others)
- Latin America (Brazil, Mexico, Others)
- Middle East and Africa

Competitive Landscape with Key Player:

Air Products Inc.
Dow Inc.
Evonik Industries AG
Gelest Inc. (Mitsubishi Chemical Holdings Corporation)
Momentive Performance Materials Inc.
Nanjing Shuguang Chemical Group Co. Ltd.
Power Chemical Corporation
Rheinmetall AG
Shin-Etsu Chemical Co. Ltd.
Silar
Tokyo Chemical Industry Co. Ltd.
Wacker Chemie AG.

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As the novel coronavirus (COVID-19) crisis takes over the world, we are continuously tracking the changes in the markets, as well as the industry behaviours of the consumers globally and our estimates about the latest market trends and forecasts are being done after considering the impact of this pandemic.

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Elena Anderson

IMARC Services Private Limited

+1 6317911145

[email us here](#)

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