

Global Silicon Tetrachloride Market Report and Forecast 2024-2032

Market Report | 2023-11-21 | 144 pages | EMR Inc.

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Report description:

Global Silicon Tetrachloride Market Report and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the global silicon tetrachloride market is projected to grow at a CAGR of 4% between 2024 and 2032 reaching a value of approximate USD 3.47 billion by 2032. Aided by rising demand for optical fibre and rising demand for high purity silicon and silica, the market is expected to grow significantly by 2032.

Silicon tetrachloride, a colourless inorganic compound, is widely used as an intermediate in producing high-purity silicon. This is predominantly in the electronic industry where high-purity silicon is an essential component for semiconductor devices. However, a significant portion of silicon tetrachloride demand is generated from the optical fibre industry, where it is used in the production of preforms, the primary raw material for drawing optical fibres. The role of optical fibres in the ever-expanding telecommunications sector is paramount, offering rapid signal transmission with minimal loss.

The burgeoning telecommunications industry, particularly in developing regions, is a pivotal factor boosting the silicon tetrachloride market size. As nations aim to increase their broadband penetration and upgrade their telecommunications infrastructure, the demand for optical fibres, and by extension silicon tetrachloride, is expected to witness a robust growth. Additionally, the increasing adoption of 5G technology is poised to support this demand further.

Silicon tetrachloride also finds applications in the chemical industry as a chlorinating agent. It is utilised in the production of organochlorine compounds, a segment that has been witnessing steady growth, thereby bolstering the silicon tetrachloride market demand.

However, it is not just the telecommunication and chemical sectors that contribute to the upward trajectory of the market for silicon tetrachloride. The compound has niche applications in the solar industry as well. With the increasing global focus on sustainable energy sources and reducing carbon footprints, the solar industry has been on a significant upswing. Silicon tetrachloride plays a role in manufacturing specific types of solar cells, adding another dimension to the silicon tetrachloride market expansion.

Significant investments are being channelled into research and development to develop safer handling and storage solutions. Additionally, there is a focus on establishing sustainable production methods that minimise environmental impact, which could serve as a market differentiator in the coming years. As the telecommunications, chemical, and solar industries continue to

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flourish, the silicon tetrachloride market demand is expected to surge over the forecast period.

Market Segmentation

The market can be divided based on application and region.

Market Breakup by Application

- Chemical Intermediate
- Semiconductors
- Photovoltaic Cells
- Optical Fibre
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and acquisitions and mergers, among other major developments, of the major companies operating in the global silicon tetrachloride market. Some of the key players explored in the report by Expert Market Research are as follows:

- Evonik Industries AG
- Air Products and Chemicals, Inc
- Momentive Specialty Chemicals Inc.
- Shandong Xinlong Group
- Merck KGaA
- Others

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