

Global Silicon Precursor Gases (Si Precursors) Market Growth 2022-2028

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Abstracts

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Silicon-precursor gases act as a source of silicon atoms for the deposition of polycrystalline silicon, epitaxial silicon, silicon dioxide, and silicon nitride. The most common gases are silane, dichlorosilane, trichlorosilane, and silicon tetrachloride.

The global market for Silicon Precursor Gases (Si Precursors) is estimated to increase from US\$ million in 2021 to reach US\$ million by 2028, exhibiting a CAGR of % during 2022-2028. Keeping in mind the uncertainties of COVID-19 and Russia-Ukraine War, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The APAC Silicon Precursor Gases (Si Precursors) market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The United States Silicon Precursor Gases (Si Precursors) market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The Europe Silicon Precursor Gases (Si Precursors) market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The China Silicon Precursor Gases (Si Precursors) market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

Global key Silicon Precursor Gases (Si Precursors) players cover DuPont, Taiyo Nippon

Sanso, SK Materials (SK specialty), PERIC and Mitsui Chemical, etc. In terms of revenue, the global largest two companies occupy a share nearly % in 2021.

Report Coverage

This latest report provides a deep insight into the global Silicon Precursor Gases (Si Precursors) market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, value chain analysis, etc.

This report aims to provide a comprehensive picture of the global Silicon Precursor Gases (Si Precursors) market, with both quantitative and qualitative data, to help readers understand how the Silicon Precursor Gases (Si Precursors) market scenario changed across the globe during the pandemic and Russia-Ukraine War.

The base year considered for analyses is 2021, while the market estimates and forecasts are given from 2022 to 2028. The market estimates are provided in terms of revenue in USD millions and volume in Tons.

Market Segmentation:

The study segments the Silicon Precursor Gases (Si Precursors) market and forecasts the market size by Type (Silane (SiH₄), Dichlorosilane (SiH₂Cl₂) and Trichlorosilane), by Application (Semiconductors, Photovoltaic Cells, Flat Panel Displays and Others), and region (APAC, Americas, Europe, and Middle East & Africa).

Segmentation by type

Silane (SiH₄)

Dichlorosilane (SiH₂Cl₂)

Trichlorosilane

Silicon Tetrachloride

Disilane (Si₂H₆)

Others

Segmentation by application

Semiconductors

Photovoltaic Cells

Flat Panel Displays

Others

Segmentation by region

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

Major companies covered

DuPont

Taiyo Nippon Sanso

SK Materials (SK specialty)

PERIC

Mitsui Chemical

Merck (Versum Materials)

Guangdong Huate Gas

Air Liquide Electronics

Linde plc

Entegris

Chapter Introduction

Chapter 1: Scope of Silicon Precursor Gases (Si Precursors), Research Methodology, etc.

Chapter 2: Executive Summary, global Silicon Precursor Gases (Si Precursors) market size (sales and revenue) and CAGR, Silicon Precursor Gases (Si Precursors) market size by region, by type, by application, historical data from 2017 to 2022, and forecast to 2028.

Chapter 3: Silicon Precursor Gases (Si Precursors) sales, revenue, average price, global market share, and industry ranking by company, 2017-2022

Chapter 4: Global Silicon Precursor Gases (Si Precursors) sales and revenue by region and by country. Country specific data and market value analysis for the U.S., Canada, Europe, China, Japan, South Korea, Southeast Asia, India, Latin America and Middle East & Africa.

Chapter 5, 6, 7, 8: Americas, APAC, Europe, Middle East & Africa, sales segment by country, by type, and type.

Chapter 9: Analysis of the current market trends, market forecast, opportunities and economic trends that are affecting the future marketplace

Chapter 10: Manufacturing cost structure analysis

Chapter 11: Sales channel, distributors, and customers

Chapter 12: Global Silicon Precursor Gases (Si Precursors) market size forecast by

region, by country, by type, and application.

Chapter 13: Comprehensive company profiles of the leading players, including DuPont, Taiyo Nippon Sanso, SK Materials (SK specialty), PERIC, Mitsui Chemical, Merck (Versum Materials), Guangdong Huate Gas, Air Liquide Electronics and Linde plc, etc.

Chapter 14: Research Findings and Conclusion

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