

Global Ultrahigh Purity Hexachlorodisilane (HCDS) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Ultrahigh Purity Hexachlorodisilane (HCDS) market size was valued at US\$ 70.9 million in 2024 and is forecast to a readjusted size of USD 117 million by 2031 with a CAGR of 7.6% during review period.

Hexachlorodisilane, with the molecular formula Si_2Cl_6 , is abbreviated as HCDS, also known as hexachlorodisilane and hexachlorodisilane. Hexachlorodisilane is a colorless, transparent liquid with stable performance and low volatility. It reacts violently with water and is insoluble in alcohols and strong bases. Hexachlorodisilane belongs to chlorosilane and is one of the products with higher application value among oligomeric chlorosilanes. It is an organic intermediate that can be used to prepare products such as disilane and can also deposit thin films. The semiconductor and solar energy industries are its important downstream markets.

The purity of ultra-high purity hexachlorodisilane is >99.999%. It is used as a precursor for chemical vapor deposition (CVD) and atomic layer deposition (ALD) in the semiconductor field, and can also be used as a precursor in the solar energy field. It is also used in the optical fiber and aerospace fields.

Ultra-high purity hexachlorodisilane has stable performance and low volatility. It is mainly used as a precursor material for the deposition of silicon oxide films, silicon nitride films, etc. in the semiconductor field. It has broad application prospects in the fields of semiconductors and optoelectronic materials. In recent years, benefiting from the accelerated transfer of the semiconductor industry to mainland China, as the world's largest consumer market for semiconductor terminal products, the scale of China's

semiconductor industry has continued to expand, the market for ultra-high purity hexachlorodisilane has become more prosperous, and the demand growth rate has been at a relatively high level.

At present, the production market of ultra-high purity hexachlorodisilane is mainly concentrated in Japan, South Korea, the United States, Germany, etc. Ultra-high purity hexachlorodisilane is a silane semiconductor precursor and can be used in the semiconductor industry, solar energy industry, optical fiber, etc. Toagosei is the world's first company to industrially produce hexachlorodisilane. With the improvement of production technology and the development of the downstream semiconductor industry, more and more manufacturers are entering the industry, such as DNF and DS Techopia in South Korea, Dupont in the United States, and Evonik in Germany.

The semiconductor industry is the main application field of ultra-high purity HCDS. As a cutting-edge technology and high value-added industry, the semiconductor industry has a great impact on other industries. It is a key technology industry with great strategic significance in the entire national economy. Therefore, governments around the world regard it as a national backbone industry.

This report is a detailed and comprehensive analysis for global Ultrahigh Purity Hexachlorodisilane (HCDS) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ultrahigh Purity Hexachlorodisilane (HCDS) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Ultrahigh Purity Hexachlorodisilane (HCDS) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Ultrahigh Purity Hexachlorodisilane (HCDS) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average

selling prices (US\$/kg), 2020-2031

Global Ultrahigh Purity Hexachlorodisilane (HCDS) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Ultrahigh Purity Hexachlorodisilane (HCDS)
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Ultrahigh Purity Hexachlorodisilane (HCDS) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dupont, Evonik, Toagosei, DNF, Wonik Materials, Air Liquide, DS Techopia, Altogen Chemicals, UP Chemical, TEMC CNS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Ultrahigh Purity Hexachlorodisilane (HCDS) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

5N

7N

Others

Market segment by Application

Amorphous Silicon Film Material

Photochemical Fiber Raw Material

Siloxane Precursor Material

Others

Major players covered

Dupont

Evonik

Toagosei

DNF

Wonik Materials

Air Liquide

DS Techopia

Altogen Chemicals

UP Chemical

TEMC CNS

OCI

Engtegris

Nata

Nanmat Technology

China Silicon

New Silicon

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ultrahigh Purity Hexachlorodisilane (HCDS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultrahigh Purity Hexachlorodisilane (HCDS), with price, sales quantity, revenue, and global market share of Ultrahigh Purity Hexachlorodisilane (HCDS) from 2020 to 2025.

Chapter 3, the Ultrahigh Purity Hexachlorodisilane (HCDS) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultrahigh Purity Hexachlorodisilane (HCDS) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Ultrahigh Purity Hexachlorodisilane (HCDS) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultrahigh Purity Hexachlorodisilane (HCDS).

Chapter 14 and 15, to describe Ultrahigh Purity Hexachlorodisilane (HCDS) sales channel, distributors, customers, research findings and conclusion.

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