

Global Deuterium Gas for Semiconductor Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Deuterium Gas for Semiconductor market size is expected to reach \$ 98.8 million by 2029, rising at a market growth of 6.7% CAGR during the forecast period (2023-2029).

Deuterium gas ($2H_2$; D_2) is used in the manufacturing of silicon semiconductors and microchips found commonly in circuit boards through the process of a deuterium-protium exchange. Deuterium annealing replaces the protium atoms with deuterium, preventing deterioration of the chip circuitry from chemical erosion and the Hot Carrier Effect. This process significantly extends and improves the life cycle of semiconductors and microchips, while allowing them to be made smaller and have high circuit densities (high density chips).

This report studies the global Deuterium Gas for Semiconductor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Deuterium Gas for Semiconductor, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Deuterium Gas for Semiconductor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Deuterium Gas for Semiconductor total production and demand, 2018-2029, (Kg)

Global Deuterium Gas for Semiconductor total production value, 2018-2029, (USD Million)

Global Deuterium Gas for Semiconductor production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Deuterium Gas for Semiconductor consumption by region & country, CAGR, 2018-2029 & (Kg)

U.S. VS China: Deuterium Gas for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global Deuterium Gas for Semiconductor production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Kg)

Global Deuterium Gas for Semiconductor production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Kg)

Global Deuterium Gas for Semiconductor production by Application production, value, CAGR, 2018-2029, (USD Million) & (Kg).

This reports profiles key players in the global Deuterium Gas for Semiconductor market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde Gas, Matheson Tri-Gas, Cambridge Isotope Laboratories, Sigma-Aldrich, Center of Molecular Research, CSIC, Heavy Water Board (HWB), Isowater Corporation and Sumitomo Seika Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Deuterium Gas for Semiconductor market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by

year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Deuterium Gas for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Deuterium Gas for Semiconductor Market, Segmentation by Type

4N Purity Deuterium Gas

5N Purity Deuterium Gas

Global Deuterium Gas for Semiconductor Market, Segmentation by Application

Semiconductor

OLED

Companies Profiled:

Linde Gas

Matheson Tri-Gas

Cambridge Isotope Laboratories

Sigma-Aldrich

Center of Molecular Research

CSIC

Heavy Water Board (HWB)

Isowater Corporation

Sumitomo Seika Chemical

Key Questions Answered

1. How big is the global Deuterium Gas for Semiconductor market?
2. What is the demand of the global Deuterium Gas for Semiconductor market?
3. What is the year over year growth of the global Deuterium Gas for Semiconductor market?
4. What is the production and production value of the global Deuterium Gas for Semiconductor market?
5. Who are the key producers in the global Deuterium Gas for Semiconductor market?

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