

# Global Process Gas Purification for Semiconductor Supply, Demand and Key Producers, 2024-2030

<https://marketpublishers.com/r/GC20C7398CBFEN.html>

Date: March 2024

Pages: 111

Price: US\$ 4,480.00 (Single User License)

ID: GC20C7398CBFEN

## Abstracts

The global Process Gas Purification for Semiconductor market size is expected to reach \$ 381.6 million by 2030, rising at a market growth of 6.2% CAGR during the forecast period (2024-2030).

Purification capabilities play an increasingly critical role in semiconductor manufacturing as shrinking geometries and multi-layering are significantly increasing gas consumption per processed wafer.

Gas purifier is used to clean gases, reducing the risks of column damage, sensitivity loss, and instrument downtime. Inserting a Gas Clean Filter System in the gas line immediately before the instrument inlet greatly reduces the level of impurities that can lead to defects on the Deposition.

This report focuses on the gas purifiers for semiconductors, key applications include Deposition (MOCVD, PVD, CVD, Epitaxy, ALD) are the largest application, with a share about 45%, followed by Photolithography, etching (wet etch, dry etching), and other applications (wafer growing, diffusion and oxidation processes, stocker cleaning and purging, FOUP Cleaning and purging, etc.).

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

This report is a detailed and comprehensive analysis of the world market for Process Gas Purification for Semiconductor, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Process Gas

Purification for Semiconductor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Process Gas Purification for Semiconductor total production and demand, 2019-2030, (Units)

Global Process Gas Purification for Semiconductor total production value, 2019-2030, (USD Million)

Global Process Gas Purification for Semiconductor production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (Units)

Global Process Gas Purification for Semiconductor consumption by region & country, CAGR, 2019-2030 & (Units)

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

Global Process Gas Purification for Semiconductor production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (Units)

Global Process Gas Purification for Semiconductor production by Type, production, value, CAGR, 2019-2030, (USD Million) & (Units)

Global Process Gas Purification for Semiconductor production By Application production, value, CAGR, 2019-2030, (USD Million) & (Units).

This reports profiles key players in the global Process Gas Purification 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 Entegris, Pall Corporation, Taiyo Nippon Sanso (Matheson), Applied Energy Systems, Japan Pionics, NuPure and Dalian Huabang Chemical, etc.

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

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and By Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Process Gas Purification for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Process Gas Purification for Semiconductor Market, Segmentation by Type

Point of Use Gas Purifiers

Bulk Gas Purifier

Global Process Gas Purification for Semiconductor Market, Segmentation By Application

Deposition (CVD/PVD/CVD)

Photolithography

Bulk Gas Delivery

Etching

Others

#### Companies Profiled:

Entegris

Pall Corporation

Taiyo Nippon Sanso (Matheson)

Applied Energy Systems

Japan Pionics

NuPure

Dalian Huabang Chemical

#### Key Questions Answered

1. How big is the global Process Gas Purification for Semiconductor market?
2. What is the demand of the global Process Gas Purification for Semiconductor market?
3. What is the year over year growth of the global Process Gas Purification for Semiconductor market?
4. What is the production and production value of the global Process Gas Purification

for Semiconductor market?

5. Who are the key producers in the global Process Gas Purification for Semiconductor market?

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