

Global Electronic Grade Special Degassing Membrane Module Market Growth 2026-2032

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Abstracts

The global Electronic Grade Special Degassing Membrane Module market size is predicted to grow from US\$ 398 million in 2025 to US\$ 602 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

Electronic-grade specialty degassing membrane modules are high-purity gas-liquid separation devices designed for the removal of dissolved gases from ultrapure water, electronic chemicals, high-purity solvents, and semiconductor wet-process fluids. The research scope mainly covers hollow fiber degassing membrane modules, PTFE/PFA microporous membrane degassing units, vacuum degassing modules, nitrogen sweep gas degassing systems, and integrated online deoxygenation and decarbonation systems. Commercial products are mainly supplied in the form of cartridge-type membrane modules, box-type units, online circulation degassing systems, integrated ultrapure water degassing equipment, and customized high-purity fluid treatment modules. Key manufacturing technologies include fluoropolymer precision stretching, hollow-fiber membrane fabrication, plasma surface modification, ultra-clean packaging, laser welding, and high-purity flow channel integration. Critical specifications include oxygen removal efficiency, CO₂ removal rate, membrane pore size, gas permeability, TOC control level, metal ion extractables, chemical resistance, particle contamination level, and ultra-clean purity grade, among which ppb-level dissolved oxygen control capability and ultra-low metallic contamination are regarded as the most important performance indicators. The primary function of these products is to continuously remove dissolved oxygen, carbon dioxide, and trace gaseous contaminants from process fluids without introducing particles or ionic contamination, thereby ensuring process stability and yield control in semiconductor manufacturing, display panel production, photovoltaic electronics, advanced packaging, and high-purity electronic chemical processing applications. This research mainly focuses on high-end degassing

membrane modules and integrated systems used in electronic-grade ultrapure fluid management while also covering associated membrane materials, ultra-clean fittings, and online monitoring units.

According to our research, the electronic-grade specialty degassing membrane module industry is entering a stable growth phase driven by the expansion of advanced semiconductor manufacturing and the continuous upgrading of ultrapure process systems. Demand growth is primarily supported by increasingly stringent requirements for dissolved oxygen, carbon dioxide, and metallic impurity control in advanced logic nodes below 3nm, advanced packaging technologies, and high-layer memory chip production. Degassing membrane modules are gradually evolving from auxiliary fluid treatment equipment into critical yield-protection components within semiconductor fabrication environments. From a technology perspective, hollow-fiber membrane architectures and PTFE/PFA fluoropolymer material systems remain the dominant commercial solutions, while products offering enhanced chemical resistance, ultra-low extractables, and extended operational lifespan are experiencing the fastest adoption growth. Integrated online deoxygenation systems are also achieving higher penetration rates in advanced wafer fabs and high-purity wet electronic chemical processing lines. From the demand structure viewpoint, semiconductor wafer manufacturing continues to account for the largest share of the market, while display panels, advanced packaging, photovoltaic electronics, and ultrapure chemical supply chains represent important incremental growth sectors. Industry developments indicate that Asia is increasingly becoming the global center for new capacity expansion and supply chain localization, particularly driven by wafer fab construction projects across mainland China, South Korea, and Southeast Asia. Capital expenditure is increasingly concentrated in high-purity fluoropolymer materials, ultra-clean membrane packaging technologies, and online monitoring systems. The industry also demonstrates a clear layered structure: the core formal supplier group mainly consists of specialized membrane component manufacturers with electronic-grade clean manufacturing capability and long semiconductor qualification cycles, while the broader supplier ecosystem includes industrial filtration companies, general membrane separation suppliers, and diversified chemical equipment manufacturers. Over the next several years, continued semiconductor process scaling, regional wafer fab expansion, and stricter electronic chemical purity standards are expected to sustain market growth while accelerating the transition toward higher cleanliness grades and intelligent online fluid control systems.

LP Information, Inc. (LPI) ' newest research report, the "Electronic Grade Special Degassing Membrane Module Industry Forecast" looks at past sales and reviews total world Electronic Grade Special Degassing Membrane Module sales in 2025, providing a

comprehensive analysis by region and market sector of projected Electronic Grade Special Degassing Membrane Module sales for 2026 through 2032. With Electronic Grade Special Degassing Membrane Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electronic Grade Special Degassing Membrane Module industry.

This Insight Report provides a comprehensive analysis of the global Electronic Grade Special Degassing Membrane Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Electronic Grade Special Degassing Membrane Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electronic Grade Special Degassing Membrane Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electronic Grade Special Degassing Membrane Module and breaks down the forecast by Degassing Target, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Electronic Grade Special Degassing Membrane Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Electronic Grade Special Degassing Membrane Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Degassing Target:

Oxygen Removal Membrane Module

Carbon Dioxide Removal Membrane Module

Combined Oxygen and Carbon Dioxide Removal Membrane Module

Others

Segmentation by Material:

PP (Polypropylene) Hollow Fiber Membrane Module

PTFE (Polytetrafluoroethylene) Hollow Fiber Membrane Module

PVDF (Polyvinylidene Fluoride) Hollow Fiber Membrane Module

Others

Segmentation by Application:

Semiconductor Manufacturing

Flat Panel Display

Photovoltaic (Solar)

Others

This report also splits the market 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

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

3M

DIC

Cobetter

Darllly

Sci-Nanomem

Junkosha

Cepratec

Sinochem

ELKPURE

Jietong

Aegis

SABEU

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electronic Grade Special Degassing Membrane Module market?

What factors are driving Electronic Grade Special Degassing Membrane Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Electronic Grade Special Degassing Membrane Module market opportunities vary by end market size?

How does Electronic Grade Special Degassing Membrane Module break out by Degassing Target, by Application?

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