

Global Silicon Nitride Selective Etchant Market Growth 2026-2032

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Abstracts

The global Silicon Nitride Selective Etchant market size is predicted to grow from US\$ 157 million in 2025 to US\$ 225 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

Silicon nitride selective etchants are a class of electronic chemicals used in semiconductor wet etching processes; their primary function is to remove Si₃N₄/SiN films while minimizing corrosion of SiO₂, Si, certain metals, or other dielectric layers. Mainstream products are based on high-purity phosphoric acid systems and are typically utilized at temperatures exceeding 140°C.

Upstream components primarily include electronic-grade phosphoric acid, ultrapure water, silicon-based additives, complexing/dispersing agents, metal ion control agents, filtration consumables, and high-purity packaging materials. Electronic-grade phosphoric acid determines the base etching capability and impurity levels, while the additive system dictates the Si₃N₄/SiO₂ selectivity ratio, SiO₂ redeposition control, particle defect levels, and bath lifespan.

In 2025, global sales volume is approximately 35,000 metric tons, with an average market price of around \$4,600 per ton; leading manufacturers in the industry typically achieve gross margins of approximately 30%-45%.

United States market for Silicon Nitride Selective Etchant is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Silicon Nitride Selective Etchant is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Silicon Nitride Selective Etchant is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Silicon Nitride Selective Etchant players cover RAM Technology, Transene, Soulbrain, Sunlit Chemical, Merck KGaA, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Silicon Nitride Selective Etchant Industry Forecast" looks at past sales and reviews total world Silicon Nitride Selective Etchant sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Nitride Selective Etchant sales for 2026 through 2032. With Silicon Nitride Selective Etchant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silicon Nitride Selective Etchant industry.

This Insight Report provides a comprehensive analysis of the global Silicon Nitride Selective Etchant 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 Silicon Nitride Selective Etchant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silicon Nitride Selective Etchant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Nitride Selective Etchant and breaks down the forecast by Type, 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 Silicon Nitride Selective Etchant.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Nitride Selective Etchant market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Standard Type

High-Selectivity Type

Segmentation by Chemical System:

Hot Phosphoric Acid Type

Modified Phosphoric Acid Type

Segmentation by Application:

Memory Chips

Logic Chips

MEMS Devices

Power Devices

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.

RAM Technology

Transene

Soulbrain

Sunlit Chemical

Merck KGaA

Entegris

Shanghai Sinyang

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Nitride Selective Etchant market?

What factors are driving Silicon Nitride Selective Etchant market growth, globally and by region?

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

How do Silicon Nitride Selective Etchant market opportunities vary by end market size?

How does Silicon Nitride Selective Etchant break out by Type, by Application?

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