

Global Silicon Nitride Selective Etchant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Nitride Selective Etchant market size is expected to reach \$ 233 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

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%.

This report studies the global Silicon Nitride Selective Etchant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Nitride Selective Etchant and provides market size (US\$ million) and Year-over-Year

(YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicon Nitride Selective Etchant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Nitride Selective Etchant total production and demand, 2021-2032, (Tons)

Global Silicon Nitride Selective Etchant total production value, 2021-2032, (USD Million)

Global Silicon Nitride Selective Etchant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Silicon Nitride Selective Etchant consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Silicon Nitride Selective Etchant domestic production, consumption, key domestic manufacturers and share

Global Silicon Nitride Selective Etchant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Silicon Nitride Selective Etchant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Silicon Nitride Selective Etchant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Silicon Nitride Selective Etchant 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 RAM Technology, Transene, Soulbrain, Sunlit Chemical, Merck KGaA, Entegris, Shanghai Sinyang, 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 Silicon Nitride Selective Etchant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

Global Silicon Nitride Selective Etchant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Nitride Selective Etchant Market, Segmentation by Type:

Standard Type

High-Selectivity Type

Global Silicon Nitride Selective Etchant Market, Segmentation by Chemical System:

Hot Phosphoric Acid Type

Modified Phosphoric Acid Type

Global Silicon Nitride Selective Etchant Market, Segmentation by Application:

Memory Chips

Logic Chips

MEMS Devices

Power Devices

Others

Companies Profiled:

RAM Technology

Transene

Soulbrain

Sunlit Chemical

Merck KGaA

Entegris

Shanghai Sinyang

Key Questions Answered:

1. How big is the global Silicon Nitride Selective Etchant market?
2. What is the demand of the global Silicon Nitride Selective Etchant market?
3. What is the year over year growth of the global Silicon Nitride Selective Etchant market?
4. What is the production and production value of the global Silicon Nitride Selective Etchant market?
5. Who are the key producers in the global Silicon Nitride Selective Etchant market?
6. What are the growth factors driving the market demand?

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