

Global Silicon Nitride Selective Etchant Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Nitride Selective Etchant market size was valued at US\$ 166 million in 2025 and is forecast to a readjusted size of US\$ 233 million by 2032 with a CAGR of 4.5% during review period.

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 is a detailed and comprehensive analysis for global Silicon Nitride Selective Etchant market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silicon Nitride Selective Etchant market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon Nitride Selective Etchant market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon Nitride Selective Etchant market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Silicon Nitride Selective Etchant market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Nitride Selective Etchant

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Nitride Selective Etchant market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Silicon Nitride Selective Etchant market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Standard Type

High-Selectivity Type

Market segment by Chemical System

Hot Phosphoric Acid Type

Modified Phosphoric Acid Type

Market segment by Application

Memory Chips

Logic Chips

MEMS Devices

Power Devices

Others

Major players covered

RAM Technology

Transene

Soulbrain

Sunlit Chemical

Merck KGaA

Entegris

Shanghai Sinyang

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Nitride Selective Etchant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Nitride Selective Etchant, with price, sales quantity, revenue, and global market share of Silicon Nitride Selective Etchant from 2021 to 2026.

Chapter 3, the Silicon Nitride Selective Etchant competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the Silicon Nitride Selective Etchant breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Silicon Nitride Selective Etchant market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Nitride Selective Etchant.

Chapter 14 and 15, to describe Silicon Nitride Selective Etchant sales channel, distributors, customers, research findings and conclusion.

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