

Global Silicon Rings and Silicon Electrodes for Etching Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Rings and Silicon Electrodes for Etching market size was valued at US\$ 1800 million in 2024 and is forecast to a readjusted size of USD 3079 million by 2031 with a CAGR of 8.1% during review period.

The silicon parts for etching include silicon rings and silicon electrodes, and are mainly used on 8-12 inches (ie 200mm-300mm) plasma etcher. In the manufacturing process of integrated circuits, high-purity silicon components and wafers are made of silicon material, which makes the electrical properties of etching more uniform, so silicon component products are widely used in semiconductor etching machines. The periodic consumption of silicon components has become an important component consumable in the wafer processing process, which directly affects the electrical properties of the wafer. For example, a silicon ring needs to be replaced after processing about 200 wafers.

Currently the silicon electrodes and rings are mainly produced in USA, South Korea, Japan, and China. North America is the largest producer, with a share about 60 percent. South Korea is the second producer of silicon electrodes and rings. China and Japan are the third and fourth producers. In next six years, China market will grow fastest.

The major global manufacturers of silicon electrodes and rings include Silfex Inc., Hana Materials Inc., Worldex Industry & Trading, SiFusion, CoorsTek, SK Enpulse and Mitsubishi Materials, etc. The world's top seven manufacturers accounted for approximately 85 % of the revenue.

In terms of customers, OEM is dominating the market, hold a share nearly 70%. While in terms of Si parts size, the 12 inch silicon electrodes and rings are dominating market, have a share about 80%.

This report is a detailed and comprehensive analysis for global Silicon Rings and Silicon Electrodes for Etching market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Size and by Customer Type. 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 Rings and Silicon Electrodes for Etching market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Silicon Rings and Silicon Electrodes for Etching market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Silicon Rings and Silicon Electrodes for Etching market size and forecasts, by Size and by Customer Type, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Silicon Rings and Silicon Electrodes for Etching market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2020-2025

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 Rings and Silicon Electrodes for Etching
- 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 Rings and Silicon Electrodes for Etching 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 Silfex, Hana

Silicon, CoorsTek, Thinkon Semiconductor, Worldex Industry & Trading, Grinm Semiconductor, Mitsubishi Materials, SK Chemicals, Worldex, BASi Research Products, Inc, etc.

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

Market Segmentation

Silicon Rings and Silicon Electrodes for Etching market is split by Size and by Customer Type. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Size, and by Customer Type in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Size

Silicon Ring

Silicon Electrode

Market segment by Customer Type

OEM

Wafer FAB

Major players covered

Silfex

Hana Silicon

CoorsTek

Thinkon Semiconductor

Worldex Industry & Trading

Grinm Semiconductor

Mitsubishi Materials

SK Chemicals

Worldex

BASi Research Products, Inc

DynafineSemi

Anhui Lianxiao Technology Co. Ltd.

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 Rings and Silicon Electrodes for Etching product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Rings and Silicon Electrodes for Etching, with price, sales quantity, revenue, and global market share of Silicon Rings and Silicon Electrodes for Etching from 2020 to 2025.

Chapter 3, the Silicon Rings and Silicon Electrodes for Etching competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Rings and Silicon Electrodes for Etching breakdown data are

shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Size and by Customer Type, with sales market share and growth rate by Size, by Customer Type, from 2020 to 2031.

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 2020 to 2025. and Silicon Rings and Silicon Electrodes for Etching market forecast, by regions, by Size, and by Customer Type, with sales and revenue, from 2026 to 2031.

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 Rings and Silicon Electrodes for Etching.

Chapter 14 and 15, to describe Silicon Rings and Silicon Electrodes for Etching sales channel, distributors, customers, research findings and conclusion.

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