

Global SiC High Temperature Oxidation Furnace Market Growth 2026-2032

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Abstracts

The global SiC High Temperature Oxidation Furnace market size is predicted to grow from US\$ 122 million in 2025 to US\$ 245 million in 2032; it is expected to grow at a CAGR of 10.7% from 2026 to 2032.

The semiconductor oxidation process is a core link in semiconductor manufacturing. The key lies in using an oxidation furnace to accurately control the oxidation process to generate high-quality silicon dioxide films. The semiconductor oxidation process usually covers key steps such as surface cleaning, oxidation process and parameter control. In the oxidation stage, in order to generate a silicon dioxide film with the required thickness and uniformity, the core parameters such as temperature, gas flow and pressure in the oxidation furnace must be precisely controlled. This film plays a vital role in protection and isolation in semiconductor devices due to its excellent insulation properties. It can effectively resist the erosion of the external environment, thereby improving the overall performance and reliability of the device.

As a key equipment in this process, the semiconductor oxidation furnace has the main function of oxidizing the silicon substrate under high temperature conditions to generate a dense silicon dioxide film. Through a highly precise control mechanism, the oxidation furnace can ensure that the generated film meets specific quality and performance requirements.

As a special type of semiconductor oxidation furnace, the silicon carbide high-temperature oxidation furnace is mainly used for the high-temperature oxidation process of silicon carbide wafers. This equipment can also generate high-quality silicon dioxide films and play an important role in protection and isolation in semiconductor devices. At the same time, the silicon carbide high-temperature oxidation furnace also has the

ability to handle conventional silicon wafer oxidation processes.

United States market for SiC High Temperature Oxidation Furnace 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 SiC High Temperature Oxidation Furnace 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 SiC High Temperature Oxidation Furnace is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key SiC High Temperature Oxidation Furnace players cover Centrotherm, NAURA, Tystar Corporation, Toyoko Kagaku, CETC48, 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 "SiC High Temperature Oxidation Furnace Industry Forecast" looks at past sales and reviews total world SiC High Temperature Oxidation Furnace sales in 2025, providing a comprehensive analysis by region and market sector of projected SiC High Temperature Oxidation Furnace sales for 2026 through 2032. With SiC High Temperature Oxidation Furnace sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC High Temperature Oxidation Furnace industry.

This Insight Report provides a comprehensive analysis of the global SiC High Temperature Oxidation Furnace 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 SiC High Temperature Oxidation Furnace portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SiC High Temperature Oxidation Furnace market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC High Temperature Oxidation Furnace 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 SiC High Temperature Oxidation Furnace.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC High Temperature Oxidation Furnace market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vertical Oxidation Furnace

Horizontal Oxidation Furnace

Segmentation by Application:

4 Inch SiC Wafer

6 Inch SiC Wafer

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.

Centrotherm

NAURA

Tystar Corporation

Toyoko Kagaku

CETC48

Laplace Renewable Energy Technology

Shandong Leguan

Qingdao JCMEE

Wuxi Sunred

Hunan Aikewei Semiconductor Equipment

Mattson Technology

AMAT

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC High Temperature Oxidation Furnace market?

What factors are driving SiC High Temperature Oxidation Furnace market growth, globally and by region?

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

How do SiC High Temperature Oxidation Furnace market opportunities vary by end market size?

How does SiC High Temperature Oxidation Furnace break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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