

Semiconductor Thermal Oxidation and Diffusion Furnace Market, Global Outlook and Forecast 2022-2028

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Abstracts

Semiconductor heat treatment mainly includes oxidation, diffusion and annealing processes. Oxidation is an additive process in which silicon wafers are placed in a high-temperature furnace, and oxygen is added to react with them to form silicon dioxide on the wafer surface. Diffusion is the movement of substances from high-concentration regions to low-concentration regions through molecular thermal motion. The silicon substrate can be doped with specific dopants by the diffusion process, thereby changing the conductivity of the semiconductor. Dopant cannot independently control dopant concentration and junction depth, so it is less and less used now. Annealing is a heating process that causes specific physical and chemical changes to the wafer and adds or removes small amounts of material from the surface of the wafer.

The semiconductor equipment used in the heat treatment process is an oxidation diffusion equipment, which is essentially a high temperature furnace. High-temperature furnaces are divided into vertical and horizontal high-temperature furnaces.

This report contains market size and forecasts of Semiconductor Thermal Oxidation and Diffusion Furnace in global, including the following market information:

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market Sales, 2017-2022, 2023-2028, (Units)

Global top five Semiconductor Thermal Oxidation and Diffusion Furnace companies in

2021 (%)

The global Semiconductor Thermal Oxidation and Diffusion Furnace market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Horizontal Furnace Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Semiconductor Thermal Oxidation and Diffusion Furnace include TEL, Kokusai Electric, E-Town Semiconductor Technology, NAURA, Centrotherm, ACM Research, Normanbell Materials Technology, Koyo Thermo Systems and Ohkura Electric, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Semiconductor Thermal Oxidation and Diffusion Furnace manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market Segment Percentages, by Type, 2021 (%)

Horizontal Furnace

Vertical Furnace

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market Segment Percentages, by Application, 2021 (%)

Integrated Circuit

Optoelectronic Device

Others

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Semiconductor Thermal Oxidation and Diffusion Furnace Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Semiconductor Thermal Oxidation and Diffusion Furnace revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Semiconductor Thermal Oxidation and Diffusion Furnace revenues share in global market, 2021 (%)

Key companies Semiconductor Thermal Oxidation and Diffusion Furnace sales in global market, 2017-2022 (Estimated), (Units)

Key companies Semiconductor Thermal Oxidation and Diffusion Furnace sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

TEL

Kokusai Electric

E-Town Semiconductor Technology

NAURA

Centrotherm

ACM Research

Normanbell Materials Technology

Koyo Thermo Systems

Ohkura Electric

RCH Associates

ASM International

Syskey Technology

Thermco Systems

Laplace Energy Technology

Exwell Intelligent Equipment

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