

Global Thermal Spray Coatings for Semiconductor Equipment Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Thermal Spray Coatings for Semiconductor Equipment market size was valued at USD 24 million in 2022 and is forecast to a readjusted size of USD 36 million by 2029 with a CAGR of 6.0% during review period.

Chamber particles can reduce the yield of functioning devices on a semiconductor wafer. Thermal spray coatings are applied to PVD chamber shielding components to roughen process surfaces, promote adhesion of process materials and thereby reduce defect density within the components respective process chambers.

Dry etching is an essential nanofabrication technique in the modern-day manufacturing of miniaturized semiconductor devices. The semiconductors undergo physical bombardment by argon ions in dry-etch chambers for selectively removing masked patterns of semiconductor materials. The atmosphere in dry-etch chambers is highly corrosive and involves halogen-containing gases such as fluorine and chlorine that get broken down by plasma into chemically reactive radicals. The process gases and the removed material pose a potential risk of deposition onto the chamber components such as walls, liners, and process kits. To meet these challenges, the etch chambers require internal wear and corrosion-resistant coatings to protect them from the corrosive gases that could otherwise prove detrimental to plasma chamber components and their performance. On the other hand, the particle dropout from chamber walls due to ion bombardment also risks contaminating the etched wafer, causing undesirable process drift.

The Global Info Research report includes an overview of the development of the

Thermal Spray Coatings for Semiconductor Equipment industry chain, the market status of Plasma Etch Equipment (Yttrium Oxide Thermal Spray Powder, Alumina-based Thermal Spray Powder), CVD Equipment (Yttrium Oxide Thermal Spray Powder, Alumina-based Thermal Spray Powder), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thermal Spray Coatings for Semiconductor Equipment.

Regionally, the report analyzes the Thermal Spray Coatings for Semiconductor Equipment markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Thermal Spray Coatings for Semiconductor Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Thermal Spray Coatings for Semiconductor Equipment market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Thermal Spray Coatings for Semiconductor Equipment industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., Yttrium Oxide Thermal Spray Powder, Alumina-based Thermal Spray Powder).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Thermal Spray Coatings for Semiconductor Equipment market.

Regional Analysis: The report involves examining the Thermal Spray Coatings for Semiconductor Equipment market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Thermal Spray Coatings for Semiconductor Equipment market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Thermal Spray Coatings for Semiconductor Equipment:

Company Analysis: Report covers individual Thermal Spray Coatings for Semiconductor Equipment manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Thermal Spray Coatings for Semiconductor Equipment. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Plasma Etch Equipment, CVD Equipment).

Technology Analysis: Report covers specific technologies relevant to Thermal Spray Coatings for Semiconductor Equipment. It assesses the current state, advancements, and potential future developments in Thermal Spray Coatings for Semiconductor Equipment areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Thermal Spray Coatings for Semiconductor Equipment market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Thermal Spray Coatings for Semiconductor Equipment market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Yttrium Oxide Thermal Spray Powder

Alumina-based Thermal Spray Powder

Market segment by Application

Plasma Etch Equipment

CVD Equipment

ESC (Electrostatic Chuck)

Others

Major players covered

FUJIMI INCORPORATED

Entegris

Hansol IONES

SEWON HARDFACING CO.,LTD

Saint-Gobain

Oerlikon Balzers

APS Materials, Inc.

NGK (NTK CERATE)

Hansol IONES

FEMVIX CORP.

Coorstek

CINOS

Yeedex

YMC Co., Ltd.

Treibacher Industrie AG

Shin-Etsu Rare Earths

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 Thermal Spray Coatings for Semiconductor Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Spray Coatings for Semiconductor Equipment, with price, sales, revenue and global market share of Thermal Spray Coatings for Semiconductor Equipment from 2018 to 2023.

Chapter 3, the Thermal Spray Coatings for Semiconductor Equipment competitive

situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Spray Coatings for Semiconductor Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Thermal Spray Coatings for Semiconductor Equipment market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermal Spray Coatings for Semiconductor Equipment.

Chapter 14 and 15, to describe Thermal Spray Coatings for Semiconductor Equipment sales channel, distributors, customers, research findings and conclusion.

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