

# Global Plasma-resistant Ceramic Coatings 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 Plasma-resistant Ceramic Coatings market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Semiconductor and flat-panel-display (FPD) production equipment is subjected to extremely harsh working conditions. Dry etching via ionisation is a now standard method of microfabrication. However, high concentrations of radicals generated during the wafer etching process—such as CF<sub>4</sub>/O<sub>2</sub> plasma—can erode components within the chamber.

Plasma sprayed coatings composed of high-purity oxide ceramics promote greater surface erosion resistance in plasma chambers. The coatings are mainly of two types: aluminium oxide (Al<sub>2</sub>O<sub>3</sub>) coatings and yttrium oxide (Y<sub>2</sub>O<sub>3</sub>) coatings. Yttrium oxide is mainly used in environments requiring extremely high corrosion resistance, such as key components of plasma etching equipment, and is widely used in the semiconductor industry for its superior resistance to fluoride attack. Aluminium oxide is commonly used in general plasma etching and coatings, providing good thermal conductivity and corrosion resistance. In general, the higher the coating density, the better the etch resistance and plasma insulation.

Powder coatings lack solvents, giving way to negligible volatile organic compound

(VOC) emission into the atmosphere and reducing the risk of combustion during their usage and storage process. In addition, the powder can be easily washed when exposed to human skin, which reduces the risk of health problems for operators. ETFE is excellent in processability and able to form a thick and non-stick film layer with electrical, mechanical and chemical strength. FEP and PFA Coating Powder are low in melt viscosity and excellent in melt fluidity which can give a coating free of pinholes.

This report is a detailed and comprehensive analysis for global Plasma-resistant Ceramic Coatings 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 Plasma-resistant Ceramic Coatings market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Plasma-resistant Ceramic Coatings market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Plasma-resistant Ceramic Coatings market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Plasma-resistant Ceramic Coatings market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Plasma-resistant Ceramic Coatings
- 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 Plasma-resistant Ceramic Coatings 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 Fujimi Corporation, Saint-Gobain, Entegris, AGC, FEMVIX, SEWON HARDFACING, APS Materials, CINOS APS Coating, CoorsTek, Pentagon Technologies, etc.

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

## **Market Segmentation**

Plasma-resistant Ceramic Coatings market is split by Type and by Application. For the period 2020-2031, 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**

Y2O3 Coatings

Al2O3 Coatings

Others

### **Market segment by Application**

Etch Equipment

Deposition Equipment

Others

### **Major players covered**

Fujimi Corporation

Saint-Gobain

Entegris

AGC

FEMVIX

SEWON HARDFACING

APS Materials

CINOS APS Coating

CoorsTek

Pentagon Technologies

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 Plasma-resistant Ceramic Coatings product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plasma-resistant Ceramic Coatings, with price, sales quantity, revenue, and global market share of Plasma-resistant Ceramic Coatings from 2020 to 2025.

Chapter 3, the Plasma-resistant Ceramic Coatings competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plasma-resistant Ceramic Coatings 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 Type and by Application, with sales market share and growth rate by Type, by Application, 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 Plasma-resistant Ceramic Coatings market forecast, by regions, by Type, and by Application, 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 Plasma-resistant Ceramic Coatings.

Chapter 14 and 15, to describe Plasma-resistant Ceramic Coatings sales channel, distributors, customers, research findings and conclusion.

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