

Global Coating Power for Semiconductor Market Growth 2026-2032

<https://marketpublishers.com/r/GF98FCE919A5EN.html>

Date: January 2026

Pages: 100

Price: US\$ 3,660.00 (Single User License)

ID: GF98FCE919A5EN

Abstracts

The global Coating Power for Semiconductor market size is predicted to grow from US\$ 47.93 million in 2025 to US\$ 80.56 million in 2032; it is expected to grow at a CAGR of 8.2% from 2026 to 2032.

In this report, Coating Powder for Semiconductor focuses on high-purity ceramic thermal-spray powders used for semiconductor equipment parts, mainly Y₂O₃ (yttria), YF₃, YOF, Y–Al–O phase systems (e.g., YAG, and in practice also YAP/YAM-type phase control), plus selected Al₂O₃ powders. Commercial supplier disclosures show these chemistries are offered as thermal-spray powder lineups for semiconductor-related uses, while the “powder” itself is typically engineered as granulated / spherical feedstock with controlled particle size windows for stable feeding and reproducible coating microstructures (e.g., Shin-Etsu Rare Earth lists thermal-spray powders including Y₂O₃/YF₃/YOF/YAG/Al₂O₃; Mitsui Kinzoku’s Rare Material Division describes spherical granulated powders ~30–60 μm suitable for thermal spraying; publications cite spray powders such as 25–50 μm, 99.99% for Shin-Etsu YOF/YF₃).

Demand is concentrated in plasma-exposed hardware for etch and deposition tools—chamber liners/walls, shields, focus rings, showerheads, and related internals—where coatings are adopted to extend part lifetime and reduce particle generation/contamination, stabilizing tool uptime and yield. Supplier materials explicitly state yttria thermal-spray coatings are used in semiconductor and LCD fabrication equipment and emphasize 99.99% purity to prevent contamination, together with anti-plasma erosion resistance. Peer-reviewed studies further align with fab pain points by directly measuring plasma etching/erosion behavior and contamination particle generation from yttrium-based coatings under halogen plasmas (e.g., NF₃), reinforcing why powder purity and coating integrity are treated as process-critical consumables

rather than generic ceramics.

From an industrial process perspective, the dominant route is Atmospheric Plasma Spraying (APS) for yttria / yttrium-fluoride / yttrium-oxyfluoride coatings on chamber parts, with ongoing evaluation of process variants to improve density and reduce defect-driven particle shedding. Multiple open publications explicitly fabricate Y₂O₃/YOF/YF₃ coatings by APS (including studies that specify spray guns and powder specifications) and compare coating behaviors in halogen plasmas, while recent work also benchmarks plasma resistance across APS and other spraying approaches. Upstream, powder makers emphasize “semiconductor-grade” capabilities such as high purification, particle-size/composition control, and granulation, and suppliers describe granulated thermal-spray powders (e.g., Shin-Etsu granulated powders ~8–50 μm / ~16–50 μm; Mitsui highlights high purification + granulation; Fujimi notes strict QC and also supplies agglomerated-and-sintered high-purity Y₂O₃ spray powder).

The market is being pulled by two structural forces: (i) stronger and more frequent halogen plasma exposure (F/Cl chemistries, higher power, longer uptime targets) that increases erosion/corrosion stress on chamber surfaces, and (ii) tightening contamination budgets that amplify the value of higher-purity powders and more stable, denser coatings. A clear technical trend is chemistry migration from “yttria-only” toward YOF/YF₃ and engineered yttrium-based systems for fluorine-rich regimes, supported by comparative studies reporting excellent etching resistance of YOF in fluorocarbon plasma and strong performance in chlorine-based plasmas for chamber protection. The supply chain can be summarized as rare-earth (yttrium) refining + alumina raw materials → high-purity oxide/fluoride/oxyfluoride synthesis → spray-powder conditioning (granulation/sphericity, classification, QC) → coating service / coated-part manufacturing → equipment OEMs and semiconductor fabs, with leading Japanese suppliers explicitly describing thermal-spray powder lineups and core powder technologies (high purification, granulation, size/composition control).

LP Information, Inc. (LPI) ' newest research report, the “Coating Power for Semiconductor Industry Forecast” looks at past sales and reviews total world Coating Power for Semiconductor sales in 2025, providing a comprehensive analysis by region and market sector of projected Coating Power for Semiconductor sales for 2026 through 2032. With Coating Power for Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Coating Power for Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global Coating Power for

Semiconductor 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 Coating Power for Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Coating Power for Semiconductor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Coating Power for Semiconductor and breaks down the forecast by Material 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 Coating Power for Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of Coating Power for Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Material Type:

Yttrium Oxide (Y₂O₃) Coating Power

Yttrium Fluoride (YF₃) Coating Power

Yttrium oxyfluoride (YOF) Coating Power

Yttrium Aluminum Garnet (YAG) Coating Power

YAP and YAM Coating Power

Al₂O₃ Coating Power

Others

Segmentation by Equipment Type:

Etching Tools

Thin Film Equipment

Diffusion Equipment

Others

Segmentation by Process Node:

High End/Advanced 110nm

Segmentation by Application:

APS (Atmosphere Plasma Spray)

SPS (Suspension Plasma Spray)

PVD and AD Coating

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.

Shin-Etsu Rare Earth

Fujimi incorporated

Nippon Yttrium Company (NYC)

MiCo

Entegris

SEWON HARDFACING

Saint-Gobain

Harbin Peize Materials Technology Co,Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Coating Power for Semiconductor market?

What factors are driving Coating Power for Semiconductor market growth, globally and by region?

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

How do Coating Power for Semiconductor market opportunities vary by end market size?

How does Coating Power for Semiconductor break out by Material Type, by Application?

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