

Global Thermal Spray Materials for Semiconductor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Thermal Spray Materials for Semiconductor market size was valued at US\$ 50.42 million in 2025 and is forecast to a readjusted size of US\$ 82.50 million by 2032 with a CAGR of 7.7% during review period.

In this report, Thermal Spray Materials for Semiconductor refers to high-purity ceramic coating powders used to form plasma-resistant / halogen-corrosion-resistant protective layers on semiconductor manufacturing equipment parts (i.e., the powder material itself, not the coating service). The analytical focus is on powder purity and powder engineering—trace-metal control, particle-size distribution, granulation/sphericity, and phase chemistry—because these factors directly affect coating density/porosity, erosion behavior, and ultimately particle/metal contamination risk in plasma environments; industry powder datasheets explicitly link semiconductor chamber applications to high purity, low particulate generation, and APS deposition.

The mainstream product families include Y₂O₃ (yttria) spray powders; yttrium fluoride / yttrium oxyfluoride systems (YF₃, YOF and related compositions); phase-engineered Y–Al–O systems where phases are controlled among YAG/YAP/YAM; and selected Al₂O₃ powders (often used as a baseline or for less aggressive zones, and sometimes as engineered blends in practice). Representative suppliers publicly list these chemistries as thermal-spray powders and emphasize spray-grade powder forms such as granulated / spherical powders; for example, Shin-Etsu Rare Earth lists Y₂O₃, YF₃, YOF, YAG, Al₂O₃ thermal-spray powders, while Mitsui Kinzoku's Rare Material Division (formerly Nippon Yttrium) describes spherical granulated powders suitable for thermal spraying (e.g., 30–60 μm). MiCo also states it produces granulated coating

powders using granulation technology.

Demand is concentrated in plasma-facing parts for etch and deposition equipment—chamber liners/walls, shields, focus rings, showerheads, and related internals—where coatings are adopted to extend part life and suppress particle generation, stabilizing uptime and yield. From a process standpoint, Atmospheric Plasma Spraying (APS) is widely referenced for applying yttria coatings used on semiconductor chamber walls/tooling, with requirements centered on high purity, high density, and minimal particulates. Meanwhile, public literature directly compares Al_2O_3 / Y_2O_3 / YF_3 / YOF under fluorocarbon plasma and evaluates YOF 's potential for chamber inner-wall protection, aligning with the industry push toward yttrium-based fluoride/oxyfluoride chemistries in harsher fluorine regimes.

The value chain can be summarized as rare-earth refining (yttrium) and alumina raw materials > high-purity oxide/fluoride/oxyfluoride synthesis > spray-powder conditioning (granulation/sphericity control, classification, QC) > coating service / coated-part manufacturing > equipment OEMs and semiconductor fabs. Suppliers explicitly highlight capabilities such as high purification, composition/particle-size control, and granulation that are critical for semiconductor contamination control. Market development is driven by (i) more aggressive plasma chemistries (fluorine/chlorine exposure) and higher process intensity that accelerate erosion/corrosion, and (ii) tighter particle/metal contamination budgets that raise the value of high-purity, low-defect coatings; chamber-parts providers also emphasize fab priorities such as reducing downtime and extending part life. Key trends include: chemistry migration from “yttria-only” toward YOF/YF_3 and engineered Y-Al-O phases for fluorine-rich plasmas; powder upgrading (spherical/granulated morphology, tighter PSD, higher purity) to improve deposition consistency; and coating densification targets to reduce porosity-driven erosion and particle shedding.

This report is a detailed and comprehensive analysis for global Thermal Spray Materials for Semiconductor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material 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 Thermal Spray Materials for Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Thermal Spray Materials for Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Thermal Spray Materials for Semiconductor market size and forecasts, by Material Type and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (US\$/Kg), 2021-2032

Global Thermal Spray Materials for Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (US\$/Kg), 2021-2026

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 Thermal Spray Materials for Semiconductor
- 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 Thermal Spray Materials for Semiconductor 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 Shin-Etsu Rare Earth, Fujimi incorporated, Nippon Yttrium Company (NYC), MiCo, Entegris, SEWON HARDFACING, Saint-Gobain, Harbin Peize Materials Technology Co,Ltd, etc.

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

Market Segmentation

Thermal Spray Materials for Semiconductor market is split by Material Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material 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 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

Market segment by Equipment Type

Etching Tools

Thin Film Equipment

Diffusion Equipment

Others

Market segment by Process Node

High End/Advanced 110nm

Market segment by Application

APS (Atmosphere Plasma Spray)

SPS (Suspension Plasma Spray)

PVD and AD Coating

Major players covered

Shin-Etsu Rare Earth

Fujimi incorporated

Nippon Yttrium Company (NYC)

MiCo

Entegris

SEWON HARDFACING

Saint-Gobain

Harbin Peize Materials Technology Co,Ltd

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 Materials for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Spray Materials for Semiconductor, with price, sales quantity, revenue, and global market share of Thermal Spray Materials for Semiconductor from 2021 to 2026.

Chapter 3, the Thermal Spray Materials for Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Spray Materials for Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Material Type and by Application, with sales market share and growth rate by Material Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Thermal Spray Materials for Semiconductor market forecast, by regions, by Material Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Thermal Spray Materials for Semiconductor.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Material Type

1.3.1 Overview: Global Thermal Spray Materials for Semiconductor Consumption
Value by Material Type: 2021 Versus 2025 Versus 2032

1.3.2 Yttrium Oxide (Y₂O₃) Coating Power

1.3.3 Yttrium Fluoride (YF₃) Coating Power

1.3.4 Yttrium oxyfluoride (YOF) Coating Power

1.3.5 Yttrium Aluminum Garnet (YAG) Coating Power

1.3.6 YAP and YAM Coating Power

1.3.7 Al₂O₃ Coating Power

1.3.8 Others

1.4 Market Analysis by Equipment Type

1.4.1 Overview: Global Thermal Spray Materials for Semiconductor Consumption
Value by Equipment Type: 2021 Versus 2025 Versus 2032

1.4.2 Etching Tools

1.4.3 Thin Film Equipment

1.4.4 Diffusion Equipment

1.4.5 Others

1.5 Market Analysis by Process Node

1.5.1 Overview: Global Thermal Spray Materials for Semiconductor Consumption
Value by Process Node: 2021 Versus 2025 Versus 2032

1.5.2 High End/Advanced 110nm

1.6 Market Analysis by Application

1.6.1 Overview: Global Thermal Spray Materials for Semiconductor Consumption
Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 APS (Atmosphere Plasma Spray)

1.6.3 SPS (Suspension Plasma Spray)

1.6.4 PVD and AD Coating

1.7 Global Thermal Spray Materials for Semiconductor Market Size & Forecast

1.7.1 Global Thermal Spray Materials for Semiconductor Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Thermal Spray Materials for Semiconductor Sales Quantity (2021-2032)

1.7.3 Global Thermal Spray Materials for Semiconductor Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Shin-Etsu Rare Earth

2.1.1 Shin-Etsu Rare Earth Details

2.1.2 Shin-Etsu Rare Earth Major Business

2.1.3 Shin-Etsu Rare Earth Thermal Spray Materials for Semiconductor Product and Services

2.1.4 Shin-Etsu Rare Earth Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Shin-Etsu Rare Earth Recent Developments/Updates

2.2 Fujimi incorporated

2.2.1 Fujimi incorporated Details

2.2.2 Fujimi incorporated Major Business

2.2.3 Fujimi incorporated Thermal Spray Materials for Semiconductor Product and Services

2.2.4 Fujimi incorporated Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Fujimi incorporated Recent Developments/Updates

2.3 Nippon Yttrium Company (NYC)

2.3.1 Nippon Yttrium Company (NYC) Details

2.3.2 Nippon Yttrium Company (NYC) Major Business

2.3.3 Nippon Yttrium Company (NYC) Thermal Spray Materials for Semiconductor Product and Services

2.3.4 Nippon Yttrium Company (NYC) Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Nippon Yttrium Company (NYC) Recent Developments/Updates

2.4 MiCo

2.4.1 MiCo Details

2.4.2 MiCo Major Business

2.4.3 MiCo Thermal Spray Materials for Semiconductor Product and Services

2.4.4 MiCo Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 MiCo Recent Developments/Updates

2.5 Entegris

2.5.1 Entegris Details

2.5.2 Entegris Major Business

2.5.3 Entegris Thermal Spray Materials for Semiconductor Product and Services

2.5.4 Entegris Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.5.5 Entegris Recent Developments/Updates
- 2.6 SEWON HARDFACING
 - 2.6.1 SEWON HARDFACING Details
 - 2.6.2 SEWON HARDFACING Major Business
 - 2.6.3 SEWON HARDFACING Thermal Spray Materials for Semiconductor Product and Services
 - 2.6.4 SEWON HARDFACING Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 SEWON HARDFACING Recent Developments/Updates
- 2.7 Saint-Gobain
 - 2.7.1 Saint-Gobain Details
 - 2.7.2 Saint-Gobain Major Business
 - 2.7.3 Saint-Gobain Thermal Spray Materials for Semiconductor Product and Services
 - 2.7.4 Saint-Gobain Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Saint-Gobain Recent Developments/Updates
- 2.8 Harbin Peize Materials Technology Co,Ltd
 - 2.8.1 Harbin Peize Materials Technology Co,Ltd Details
 - 2.8.2 Harbin Peize Materials Technology Co,Ltd Major Business
 - 2.8.3 Harbin Peize Materials Technology Co,Ltd Thermal Spray Materials for Semiconductor Product and Services
 - 2.8.4 Harbin Peize Materials Technology Co,Ltd Thermal Spray Materials for Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Harbin Peize Materials Technology Co,Ltd Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: THERMAL SPRAY MATERIALS FOR SEMICONDUCTOR BY MANUFACTURER

- 3.1 Global Thermal Spray Materials for Semiconductor Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Thermal Spray Materials for Semiconductor Revenue by Manufacturer (2021-2026)
- 3.3 Global Thermal Spray Materials for Semiconductor Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Thermal Spray Materials for Semiconductor by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Thermal Spray Materials for Semiconductor Manufacturer Market Share in

2025

3.4.3 Top 6 Thermal Spray Materials for Semiconductor Manufacturer Market Share in 2025

3.5 Thermal Spray Materials for Semiconductor Market: Overall Company Footprint Analysis

3.5.1 Thermal Spray Materials for Semiconductor Market: Region Footprint

3.5.2 Thermal Spray Materials for Semiconductor Market: Company Product Type Footprint

3.5.3 Thermal Spray Materials for Semiconductor Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Thermal Spray Materials for Semiconductor Market Size by Region

4.1.1 Global Thermal Spray Materials for Semiconductor Sales Quantity by Region (2021-2032)

4.1.2 Global Thermal Spray Materials for Semiconductor Consumption Value by Region (2021-2032)

4.1.3 Global Thermal Spray Materials for Semiconductor Average Price by Region (2021-2032)

4.2 North America Thermal Spray Materials for Semiconductor Consumption Value (2021-2032)

4.3 Europe Thermal Spray Materials for Semiconductor Consumption Value (2021-2032)

4.4 Asia-Pacific Thermal Spray Materials for Semiconductor Consumption Value (2021-2032)

4.5 South America Thermal Spray Materials for Semiconductor Consumption Value (2021-2032)

4.6 Middle East & Africa Thermal Spray Materials for Semiconductor Consumption Value (2021-2032)

5 MARKET SEGMENT BY MATERIAL TYPE

5.1 Global Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2032)

5.2 Global Thermal Spray Materials for Semiconductor Consumption Value by Material Type (2021-2032)

5.3 Global Thermal Spray Materials for Semiconductor Average Price by Material Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2032)

6.2 Global Thermal Spray Materials for Semiconductor Consumption Value by Application (2021-2032)

6.3 Global Thermal Spray Materials for Semiconductor Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2032)

7.2 North America Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2032)

7.3 North America Thermal Spray Materials for Semiconductor Market Size by Country

7.3.1 North America Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2032)

7.3.2 North America Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2032)

8.2 Europe Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2032)

8.3 Europe Thermal Spray Materials for Semiconductor Market Size by Country

8.3.1 Europe Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2032)

8.3.2 Europe Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2032)
- 9.2 Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Thermal Spray Materials for Semiconductor Market Size by Region
 - 9.3.1 Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Thermal Spray Materials for Semiconductor Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2032)
- 10.2 South America Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2032)
- 10.3 South America Thermal Spray Materials for Semiconductor Market Size by Country
 - 10.3.1 South America Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2032)

11.2 Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Thermal Spray Materials for Semiconductor Market Size by Country

11.3.1 Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Thermal Spray Materials for Semiconductor Market Drivers

12.2 Thermal Spray Materials for Semiconductor Market Restraints

12.3 Thermal Spray Materials for Semiconductor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Thermal Spray Materials for Semiconductor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Thermal Spray Materials for Semiconductor

13.3 Thermal Spray Materials for Semiconductor Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Thermal Spray Materials for Semiconductor Typical Distributors

14.3 Thermal Spray Materials for Semiconductor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Thermal Spray Materials for Semiconductor Consumption Value by Material Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Thermal Spray Materials for Semiconductor Consumption Value by Equipment Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Thermal Spray Materials for Semiconductor Consumption Value by Process Node, (USD Million), 2021 & 2025 & 2032

Table 4. Global Thermal Spray Materials for Semiconductor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Shin-Etsu Rare Earth Basic Information, Manufacturing Base and Competitors

Table 6. Shin-Etsu Rare Earth Major Business

Table 7. Shin-Etsu Rare Earth Thermal Spray Materials for Semiconductor Product and Services

Table 8. Shin-Etsu Rare Earth Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Shin-Etsu Rare Earth Recent Developments/Updates

Table 10. Fujimi incorporated Basic Information, Manufacturing Base and Competitors

Table 11. Fujimi incorporated Major Business

Table 12. Fujimi incorporated Thermal Spray Materials for Semiconductor Product and Services

Table 13. Fujimi incorporated Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Fujimi incorporated Recent Developments/Updates

Table 15. Nippon Yttrium Company (NYC) Basic Information, Manufacturing Base and Competitors

Table 16. Nippon Yttrium Company (NYC) Major Business

Table 17. Nippon Yttrium Company (NYC) Thermal Spray Materials for Semiconductor Product and Services

Table 18. Nippon Yttrium Company (NYC) Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Nippon Yttrium Company (NYC) Recent Developments/Updates

Table 20. MiCo Basic Information, Manufacturing Base and Competitors

Table 21. MiCo Major Business

Table 22. MiCo Thermal Spray Materials for Semiconductor Product and Services

Table 23. MiCo Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. MiCo Recent Developments/Updates

Table 25. Entegris Basic Information, Manufacturing Base and Competitors

Table 26. Entegris Major Business

Table 27. Entegris Thermal Spray Materials for Semiconductor Product and Services

Table 28. Entegris Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Entegris Recent Developments/Updates

Table 30. SEWON HARDFACING Basic Information, Manufacturing Base and Competitors

Table 31. SEWON HARDFACING Major Business

Table 32. SEWON HARDFACING Thermal Spray Materials for Semiconductor Product and Services

Table 33. SEWON HARDFACING Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. SEWON HARDFACING Recent Developments/Updates

Table 35. Saint-Gobain Basic Information, Manufacturing Base and Competitors

Table 36. Saint-Gobain Major Business

Table 37. Saint-Gobain Thermal Spray Materials for Semiconductor Product and Services

Table 38. Saint-Gobain Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Saint-Gobain Recent Developments/Updates

Table 40. Harbin Peize Materials Technology Co,Ltd Basic Information, Manufacturing Base and Competitors

Table 41. Harbin Peize Materials Technology Co,Ltd Major Business

Table 42. Harbin Peize Materials Technology Co,Ltd Thermal Spray Materials for Semiconductor Product and Services

Table 43. Harbin Peize Materials Technology Co,Ltd Thermal Spray Materials for Semiconductor Sales Quantity (Kg), Average Price (US\$/Kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Harbin Peize Materials Technology Co,Ltd Recent Developments/Updates

Table 45. Global Thermal Spray Materials for Semiconductor Sales Quantity by

Manufacturer (2021-2026) & (Kg)

Table 46. Global Thermal Spray Materials for Semiconductor Revenue by Manufacturer (2021-2026) & (USD Million)

Table 47. Global Thermal Spray Materials for Semiconductor Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 48. Market Position of Manufacturers in Thermal Spray Materials for Semiconductor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 49. Head Office and Thermal Spray Materials for Semiconductor Production Site of Key Manufacturer

Table 50. Thermal Spray Materials for Semiconductor Market: Company Product Type Footprint

Table 51. Thermal Spray Materials for Semiconductor Market: Company Product Application Footprint

Table 52. Thermal Spray Materials for Semiconductor New Market Entrants and Barriers to Market Entry

Table 53. Thermal Spray Materials for Semiconductor Mergers, Acquisition, Agreements, and Collaborations

Table 54. Global Thermal Spray Materials for Semiconductor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 55. Global Thermal Spray Materials for Semiconductor Sales Quantity by Region (2021-2026) & (Kg)

Table 56. Global Thermal Spray Materials for Semiconductor Sales Quantity by Region (2027-2032) & (Kg)

Table 57. Global Thermal Spray Materials for Semiconductor Consumption Value by Region (2021-2026) & (USD Million)

Table 58. Global Thermal Spray Materials for Semiconductor Consumption Value by Region (2027-2032) & (USD Million)

Table 59. Global Thermal Spray Materials for Semiconductor Average Price by Region (2021-2026) & (US\$/Kg)

Table 60. Global Thermal Spray Materials for Semiconductor Average Price by Region (2027-2032) & (US\$/Kg)

Table 61. Global Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2026) & (Kg)

Table 62. Global Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2027-2032) & (Kg)

Table 63. Global Thermal Spray Materials for Semiconductor Consumption Value by Material Type (2021-2026) & (USD Million)

Table 64. Global Thermal Spray Materials for Semiconductor Consumption Value by Material Type (2027-2032) & (USD Million)

Table 65. Global Thermal Spray Materials for Semiconductor Average Price by Material Type (2021-2026) & (US\$/Kg)

Table 66. Global Thermal Spray Materials for Semiconductor Average Price by Material Type (2027-2032) & (US\$/Kg)

Table 67. Global Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2026) & (Kg)

Table 68. Global Thermal Spray Materials for Semiconductor Sales Quantity by Application (2027-2032) & (Kg)

Table 69. Global Thermal Spray Materials for Semiconductor Consumption Value by Application (2021-2026) & (USD Million)

Table 70. Global Thermal Spray Materials for Semiconductor Consumption Value by Application (2027-2032) & (USD Million)

Table 71. Global Thermal Spray Materials for Semiconductor Average Price by Application (2021-2026) & (US\$/Kg)

Table 72. Global Thermal Spray Materials for Semiconductor Average Price by Application (2027-2032) & (US\$/Kg)

Table 73. North America Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2026) & (Kg)

Table 74. North America Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2027-2032) & (Kg)

Table 75. North America Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2026) & (Kg)

Table 76. North America Thermal Spray Materials for Semiconductor Sales Quantity by Application (2027-2032) & (Kg)

Table 77. North America Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2026) & (Kg)

Table 78. North America Thermal Spray Materials for Semiconductor Sales Quantity by Country (2027-2032) & (Kg)

Table 79. North America Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2026) & (USD Million)

Table 80. North America Thermal Spray Materials for Semiconductor Consumption Value by Country (2027-2032) & (USD Million)

Table 81. Europe Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2026) & (Kg)

Table 82. Europe Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2027-2032) & (Kg)

Table 83. Europe Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2026) & (Kg)

Table 84. Europe Thermal Spray Materials for Semiconductor Sales Quantity by

Application (2027-2032) & (Kg)

Table 85. Europe Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2026) & (Kg)

Table 86. Europe Thermal Spray Materials for Semiconductor Sales Quantity by Country (2027-2032) & (Kg)

Table 87. Europe Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2026) & (USD Million)

Table 88. Europe Thermal Spray Materials for Semiconductor Consumption Value by Country (2027-2032) & (USD Million)

Table 89. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2026) & (Kg)

Table 90. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2027-2032) & (Kg)

Table 91. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2026) & (Kg)

Table 92. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Application (2027-2032) & (Kg)

Table 93. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Region (2021-2026) & (Kg)

Table 94. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity by Region (2027-2032) & (Kg)

Table 95. Asia-Pacific Thermal Spray Materials for Semiconductor Consumption Value by Region (2021-2026) & (USD Million)

Table 96. Asia-Pacific Thermal Spray Materials for Semiconductor Consumption Value by Region (2027-2032) & (USD Million)

Table 97. South America Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2026) & (Kg)

Table 98. South America Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2027-2032) & (Kg)

Table 99. South America Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2026) & (Kg)

Table 100. South America Thermal Spray Materials for Semiconductor Sales Quantity by Application (2027-2032) & (Kg)

Table 101. South America Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2026) & (Kg)

Table 102. South America Thermal Spray Materials for Semiconductor Sales Quantity by Country (2027-2032) & (Kg)

Table 103. South America Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2026) & (USD Million)

Table 104. South America Thermal Spray Materials for Semiconductor Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2021-2026) & (Kg)

Table 106. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Material Type (2027-2032) & (Kg)

Table 107. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Application (2021-2026) & (Kg)

Table 108. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Application (2027-2032) & (Kg)

Table 109. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Country (2021-2026) & (Kg)

Table 110. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity by Country (2027-2032) & (Kg)

Table 111. Middle East & Africa Thermal Spray Materials for Semiconductor Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Middle East & Africa Thermal Spray Materials for Semiconductor Consumption Value by Country (2027-2032) & (USD Million)

Table 113. Thermal Spray Materials for Semiconductor Raw Material

Table 114. Key Manufacturers of Thermal Spray Materials for Semiconductor Raw Materials

Table 115. Thermal Spray Materials for Semiconductor Typical Distributors

Table 116. Thermal Spray Materials for Semiconductor Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Thermal Spray Materials for Semiconductor Picture
- Figure 2. Global Thermal Spray Materials for Semiconductor Revenue by Material Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Thermal Spray Materials for Semiconductor Revenue Market Share by Material Type in 2025
- Figure 4. Yttrium Oxide (Y₂O₃) Coating Power Examples
- Figure 5. Yttrium Fluoride (YF₃) Coating Power Examples
- Figure 6. Yttrium oxyfluoride (YOF) Coating Power Examples
- Figure 7. Yttrium Aluminum Garnet (YAG) Coating Power Examples
- Figure 8. YAP and YAM Coating Power Examples
- Figure 9. Al₂O₃ Coating Power Examples
- Figure 10. Others Examples
- Figure 11. Others Examples
- Figure 12. Global Thermal Spray Materials for Semiconductor Revenue by Equipment Type, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Thermal Spray Materials for Semiconductor Revenue Market Share by Equipment Type in 2025
- Figure 14. Etching Tools Examples
- Figure 15. Thin Film Equipment Examples
- Figure 16. Diffusion Equipment Examples
- Figure 17. Others Examples
- Figure 18. Global Thermal Spray Materials for Semiconductor Revenue by Process Node, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Thermal Spray Materials for Semiconductor Revenue Market Share by Process Node in 2025
- Figure 20. High End/Advanced 110nm Examples
- Figure 23. Global Thermal Spray Materials for Semiconductor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 24. Global Thermal Spray Materials for Semiconductor Revenue Market Share by Application in 2025
- Figure 25. APS (Atmosphere Plasma Spray) Examples
- Figure 26. SPS (Suspension Plasma Spray) Examples
- Figure 27. PVD and AD Coating Examples
- Figure 28. Global Thermal Spray Materials for Semiconductor Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 29. Global Thermal Spray Materials for Semiconductor Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 30. Global Thermal Spray Materials for Semiconductor Sales Quantity (2021-2032) & (Kg)

Figure 31. Global Thermal Spray Materials for Semiconductor Price (2021-2032) & (US\$/Kg)

Figure 32. Global Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Manufacturer in 2025

Figure 33. Global Thermal Spray Materials for Semiconductor Revenue Market Share by Manufacturer in 2025

Figure 34. Producer Shipments of Thermal Spray Materials for Semiconductor by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 35. Top 3 Thermal Spray Materials for Semiconductor Manufacturer (Revenue) Market Share in 2025

Figure 36. Top 6 Thermal Spray Materials for Semiconductor Manufacturer (Revenue) Market Share in 2025

Figure 37. Global Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Region (2021-2032)

Figure 38. Global Thermal Spray Materials for Semiconductor Consumption Value Market Share by Region (2021-2032)

Figure 39. North America Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 41. Asia-Pacific Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 42. South America Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 43. Middle East & Africa Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 44. Global Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Material Type (2021-2032)

Figure 45. Global Thermal Spray Materials for Semiconductor Consumption Value Market Share by Material Type (2021-2032)

Figure 46. Global Thermal Spray Materials for Semiconductor Average Price by Material Type (2021-2032) & (US\$/Kg)

Figure 47. Global Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Application (2021-2032)

Figure 48. Global Thermal Spray Materials for Semiconductor Revenue Market Share

by Application (2021-2032)

Figure 49. Global Thermal Spray Materials for Semiconductor Average Price by Application (2021-2032) & (US\$/Kg)

Figure 50. North America Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Material Type (2021-2032)

Figure 51. North America Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Application (2021-2032)

Figure 52. North America Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Country (2021-2032)

Figure 53. North America Thermal Spray Materials for Semiconductor Consumption Value Market Share by Country (2021-2032)

Figure 54. United States Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 55. Canada Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 56. Mexico Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 57. Europe Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Material Type (2021-2032)

Figure 58. Europe Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Application (2021-2032)

Figure 59. Europe Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Country (2021-2032)

Figure 60. Europe Thermal Spray Materials for Semiconductor Consumption Value Market Share by Country (2021-2032)

Figure 61. Germany Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 62. France Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 63. United Kingdom Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 64. Russia Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 65. Italy Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 66. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Material Type (2021-2032)

Figure 67. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Application (2021-2032)

Figure 68. Asia-Pacific Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Region (2021-2032)

Figure 69. Asia-Pacific Thermal Spray Materials for Semiconductor Consumption Value Market Share by Region (2021-2032)

Figure 70. China Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 71. Japan Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 72. South Korea Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 73. India Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 74. Southeast Asia Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 75. Australia Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 76. South America Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Material Type (2021-2032)

Figure 77. South America Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Application (2021-2032)

Figure 78. South America Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Country (2021-2032)

Figure 79. South America Thermal Spray Materials for Semiconductor Consumption Value Market Share by Country (2021-2032)

Figure 80. Brazil Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 81. Argentina Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 82. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Material Type (2021-2032)

Figure 83. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Application (2021-2032)

Figure 84. Middle East & Africa Thermal Spray Materials for Semiconductor Sales Quantity Market Share by Country (2021-2032)

Figure 85. Middle East & Africa Thermal Spray Materials for Semiconductor Consumption Value Market Share by Country (2021-2032)

Figure 86. Turkey Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 87. Egypt Thermal Spray Materials for Semiconductor Consumption Value

(2021-2032) & (USD Million)

Figure 88. Saudi Arabia Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 89. South Africa Thermal Spray Materials for Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 90. Thermal Spray Materials for Semiconductor Market Drivers

Figure 91. Thermal Spray Materials for Semiconductor Market Restraints

Figure 92. Thermal Spray Materials for Semiconductor Market Trends

Figure 93. Porters Five Forces Analysis

Figure 94. Manufacturing Cost Structure Analysis of Thermal Spray Materials for Semiconductor in 2025

Figure 95. Manufacturing Process Analysis of Thermal Spray Materials for Semiconductor

Figure 96. Thermal Spray Materials for Semiconductor Industrial Chain

Figure 97. Sales Channel: Direct to End-User vs Distributors

Figure 98. Direct Channel Pros & Cons

Figure 99. Indirect Channel Pros & Cons

Figure 100. Methodology

Figure 101. Research Process and Data Source

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