

Global Carbide-based Thermal Spray Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbide-based Thermal Spray Powder market size is expected to reach \$ 845 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

Carbide-based thermal spray powders are materials composed primarily of hard carbide phases?such as tungsten carbide (WC) and chromium carbide (Cr₃C₂)?bonded with metallic phases like cobalt, nickel, chromium, cobalt-chromium, or nickel-chromium. Designed for processes such as HVOF, HVOF, plasma spraying, and flame spraying, they produce coatings on metal components that offer high hardness and resistance to wear, erosion, and corrosion.

Key upstream raw materials include tungsten carbide powder, chromium carbide powder, and metal powders (cobalt, nickel, chromium, and nickel-chromium alloy). Production costs are significantly influenced by the market prices of metals such as tungsten, cobalt, and nickel; specifically, WC-Co and WC-CoCr formulations are sensitive to tungsten and cobalt prices, while Cr₃C₂-NiCr formulations are sensitive to chromium and nickel prices. The manufacturing process typically involves batching, ball milling, spray granulation, sintering, crushing and shaping, screening, and batch testing. Critical quality indicators include particle size distribution, sphericity, flowability, apparent density, and carbon and oxygen content. Downstream applications serve thermal spray processing firms, the aviation maintenance sector, energy and oil & gas equipment manufacturers, construction machinery, and the repair of components for the metallurgical and papermaking industries, ultimately extending the service life of high-wear parts.

Global sales volume is projected to reach approximately 9,500 tons in 2025, with leading companies commanding an average price of roughly \$55-\$75 per kilogram and

gross profit margins for major manufacturers ranging from approximately 28% to 45%.

This report studies the global Carbide-based Thermal Spray Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbide-based Thermal Spray Powder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbide-based Thermal Spray Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbide-based Thermal Spray Powder total production and demand, 2021-2032, (Tons)

Global Carbide-based Thermal Spray Powder total production value, 2021-2032, (USD Million)

Global Carbide-based Thermal Spray Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carbide-based Thermal Spray Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Carbide-based Thermal Spray Powder domestic production, consumption, key domestic manufacturers and share

Global Carbide-based Thermal Spray Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carbide-based Thermal Spray Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Carbide-based Thermal Spray Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbide-based Thermal Spray Powder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Oerlikon Metco, H?gan?s, Linde Advanced Material Technologies, Buffalo Tungsten, DURUM, Polymet, Powder Alloy Corporation, Kennametal, Wall Colmonoy, XTC Luoyang Golden Egret Geotools, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbide-based Thermal Spray Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbide-based Thermal Spray Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbide-based Thermal Spray Powder Market, Segmentation by Type:

Tungsten Carbide

Chromium Carbide

Other

Global Carbide-based Thermal Spray Powder Market, Segmentation by Binder Phase:

Cobalt Binder

Cobalt-Chromium Binder

Nickel Binder

Other

Global Carbide-based Thermal Spray Powder Market, Segmentation by Application:

Aerospace

Petrochemical

Iron and Steel Metallurgy

Construction Machinery

Energy and Power

Other

Companies Profiled:

Oerlikon Metco

H?gan?s

Linde Advanced Material Technologies

Buffalo Tungsten

DURUM

Polymet

Powder Alloy Corporation

Kennametal

Wall Colmonoy

XTC Luoyang Golden Egret Geotools

Zigong Great Wall Surface Engineering Technology

BGRIMM Advanced Materials Science & Technology

Key Questions Answered:

1. How big is the global Carbide-based Thermal Spray Powder market?
2. What is the demand of the global Carbide-based Thermal Spray Powder market?
3. What is the year over year growth of the global Carbide-based Thermal Spray Powder market?
4. What is the production and production value of the global Carbide-based Thermal Spray Powder market?
5. Who are the key producers in the global Carbide-based Thermal Spray Powder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Carbide-based Thermal Spray Powder Introduction
- 1.2 World Carbide-based Thermal Spray Powder Supply & Forecast
 - 1.2.1 World Carbide-based Thermal Spray Powder Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Carbide-based Thermal Spray Powder Production (2021-2032)
 - 1.2.3 World Carbide-based Thermal Spray Powder Pricing Trends (2021-2032)
- 1.3 World Carbide-based Thermal Spray Powder Production by Region (Based on Production Site)
 - 1.3.1 World Carbide-based Thermal Spray Powder Production Value by Region (2021-2032)
 - 1.3.2 World Carbide-based Thermal Spray Powder Production by Region (2021-2032)
 - 1.3.3 World Carbide-based Thermal Spray Powder Average Price by Region (2021-2032)
 - 1.3.4 North America Carbide-based Thermal Spray Powder Production (2021-2032)
 - 1.3.5 Europe Carbide-based Thermal Spray Powder Production (2021-2032)
 - 1.3.6 China Carbide-based Thermal Spray Powder Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Carbide-based Thermal Spray Powder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Carbide-based Thermal Spray Powder Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Carbide-based Thermal Spray Powder Demand (2021-2032)
- 2.2 World Carbide-based Thermal Spray Powder Consumption by Region
 - 2.2.1 World Carbide-based Thermal Spray Powder Consumption by Region (2021-2026)
 - 2.2.2 World Carbide-based Thermal Spray Powder Consumption Forecast by Region (2027-2032)
- 2.3 United States Carbide-based Thermal Spray Powder Consumption (2021-2032)
- 2.4 China Carbide-based Thermal Spray Powder Consumption (2021-2032)
- 2.5 Europe Carbide-based Thermal Spray Powder Consumption (2021-2032)
- 2.6 Japan Carbide-based Thermal Spray Powder Consumption (2021-2032)
- 2.7 South Korea Carbide-based Thermal Spray Powder Consumption (2021-2032)
- 2.8 ASEAN Carbide-based Thermal Spray Powder Consumption (2021-2032)

2.9 India Carbide-based Thermal Spray Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Carbide-based Thermal Spray Powder Production Value by Manufacturer (2021-2026)

3.2 World Carbide-based Thermal Spray Powder Production by Manufacturer (2021-2026)

3.3 World Carbide-based Thermal Spray Powder Average Price by Manufacturer (2021-2026)

3.4 Carbide-based Thermal Spray Powder Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Carbide-based Thermal Spray Powder Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Carbide-based Thermal Spray Powder in 2025

3.5.3 Global Concentration Ratios (CR8) for Carbide-based Thermal Spray Powder in 2025

3.6 Carbide-based Thermal Spray Powder Market: Overall Company Footprint Analysis

3.6.1 Carbide-based Thermal Spray Powder Market: Region Footprint

3.6.2 Carbide-based Thermal Spray Powder Market: Company Product Type Footprint

3.6.3 Carbide-based Thermal Spray Powder Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Carbide-based Thermal Spray Powder Production Value Comparison

4.1.1 United States VS China: Carbide-based Thermal Spray Powder Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Carbide-based Thermal Spray Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Carbide-based Thermal Spray Powder Production

Comparison

4.2.1 United States VS China: Carbide-based Thermal Spray Powder Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Carbide-based Thermal Spray Powder Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Carbide-based Thermal Spray Powder Consumption Comparison

4.3.1 United States VS China: Carbide-based Thermal Spray Powder Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Carbide-based Thermal Spray Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Carbide-based Thermal Spray Powder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Carbide-based Thermal Spray Powder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Carbide-based Thermal Spray Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Carbide-based Thermal Spray Powder Production (2021-2026)

4.5 China Based Carbide-based Thermal Spray Powder Manufacturers and Market Share

4.5.1 China Based Carbide-based Thermal Spray Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Carbide-based Thermal Spray Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers Carbide-based Thermal Spray Powder Production (2021-2026)

4.6 Rest of World Based Carbide-based Thermal Spray Powder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Carbide-based Thermal Spray Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbide-based Thermal Spray Powder Market Size Overview by Type: 2021

VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Tungsten Carbide

5.2.2 Chromium Carbide

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Carbide-based Thermal Spray Powder Production by Type (2021-2032)

5.3.2 World Carbide-based Thermal Spray Powder Production Value by Type
(2021-2032)

5.3.3 World Carbide-based Thermal Spray Powder Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY BINDER PHASE

6.1 World Carbide-based Thermal Spray Powder Market Size Overview by Binder
Phase: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Binder Phase

6.2.1 Cobalt Binder

6.2.2 Cobalt-Chromium Binder

6.2.3 Nickel Binder

6.2.4 Other

6.3 Market Segment by Binder Phase

6.3.1 World Carbide-based Thermal Spray Powder Production by Binder Phase
(2021-2032)

6.3.2 World Carbide-based Thermal Spray Powder Production Value by Binder Phase
(2021-2032)

6.3.3 World Carbide-based Thermal Spray Powder Average Price by Binder Phase
(2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Carbide-based Thermal Spray Powder Market Size Overview by Application:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Aerospace

7.2.2 Petrochemical

7.2.3 Iron and Steel Metallurgy

7.2.4 Construction Machinery

7.2.5 Energy and Power

7.2.6 Other

7.3 Market Segment by Application

7.3.1 World Carbide-based Thermal Spray Powder Production by Application (2021-2032)

7.3.2 World Carbide-based Thermal Spray Powder Production Value by Application (2021-2032)

7.3.3 World Carbide-based Thermal Spray Powder Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Oerlikon Metco

8.1.1 Oerlikon Metco Details

8.1.2 Oerlikon Metco Major Business

8.1.3 Oerlikon Metco Carbide-based Thermal Spray Powder Product and Services

8.1.4 Oerlikon Metco Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Oerlikon Metco Recent Developments/Updates

8.1.6 Oerlikon Metco Competitive Strengths & Weaknesses

8.2 H?gan?s

8.2.1 H?gan?s Details

8.2.2 H?gan?s Major Business

8.2.3 H?gan?s Carbide-based Thermal Spray Powder Product and Services

8.2.4 H?gan?s Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 H?gan?s Recent Developments/Updates

8.2.6 H?gan?s Competitive Strengths & Weaknesses

8.3 Linde Advanced Material Technologies

8.3.1 Linde Advanced Material Technologies Details

8.3.2 Linde Advanced Material Technologies Major Business

8.3.3 Linde Advanced Material Technologies Carbide-based Thermal Spray Powder Product and Services

8.3.4 Linde Advanced Material Technologies Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Linde Advanced Material Technologies Recent Developments/Updates

8.3.6 Linde Advanced Material Technologies Competitive Strengths & Weaknesses

8.4 Buffalo Tungsten

8.4.1 Buffalo Tungsten Details

8.4.2 Buffalo Tungsten Major Business

- 8.4.3 Buffalo Tungsten Carbide-based Thermal Spray Powder Product and Services
- 8.4.4 Buffalo Tungsten Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.4.5 Buffalo Tungsten Recent Developments/Updates
- 8.4.6 Buffalo Tungsten Competitive Strengths & Weaknesses
- 8.5 DURUM
 - 8.5.1 DURUM Details
 - 8.5.2 DURUM Major Business
 - 8.5.3 DURUM Carbide-based Thermal Spray Powder Product and Services
 - 8.5.4 DURUM Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 DURUM Recent Developments/Updates
 - 8.5.6 DURUM Competitive Strengths & Weaknesses
- 8.6 Polymet
 - 8.6.1 Polymet Details
 - 8.6.2 Polymet Major Business
 - 8.6.3 Polymet Carbide-based Thermal Spray Powder Product and Services
 - 8.6.4 Polymet Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Polymet Recent Developments/Updates
 - 8.6.6 Polymet Competitive Strengths & Weaknesses
- 8.7 Powder Alloy Corporation
 - 8.7.1 Powder Alloy Corporation Details
 - 8.7.2 Powder Alloy Corporation Major Business
 - 8.7.3 Powder Alloy Corporation Carbide-based Thermal Spray Powder Product and Services
 - 8.7.4 Powder Alloy Corporation Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Powder Alloy Corporation Recent Developments/Updates
 - 8.7.6 Powder Alloy Corporation Competitive Strengths & Weaknesses
- 8.8 Kennametal
 - 8.8.1 Kennametal Details
 - 8.8.2 Kennametal Major Business
 - 8.8.3 Kennametal Carbide-based Thermal Spray Powder Product and Services
 - 8.8.4 Kennametal Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Kennametal Recent Developments/Updates
 - 8.8.6 Kennametal Competitive Strengths & Weaknesses
- 8.9 Wall Colmonoy

- 8.9.1 Wall Colmonoy Details
- 8.9.2 Wall Colmonoy Major Business
- 8.9.3 Wall Colmonoy Carbide-based Thermal Spray Powder Product and Services
- 8.9.4 Wall Colmonoy Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.9.5 Wall Colmonoy Recent Developments/Updates
- 8.9.6 Wall Colmonoy Competitive Strengths & Weaknesses
- 8.10 XTC Luoyang Golden Egret Geotools
 - 8.10.1 XTC Luoyang Golden Egret Geotools Details
 - 8.10.2 XTC Luoyang Golden Egret Geotools Major Business
 - 8.10.3 XTC Luoyang Golden Egret Geotools Carbide-based Thermal Spray Powder Product and Services
 - 8.10.4 XTC Luoyang Golden Egret Geotools Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 XTC Luoyang Golden Egret Geotools Recent Developments/Updates
 - 8.10.6 XTC Luoyang Golden Egret Geotools Competitive Strengths & Weaknesses
- 8.11 Zigong Great Wall Surface Engineering Technology
 - 8.11.1 Zigong Great Wall Surface Engineering Technology Details
 - 8.11.2 Zigong Great Wall Surface Engineering Technology Major Business
 - 8.11.3 Zigong Great Wall Surface Engineering Technology Carbide-based Thermal Spray Powder Product and Services
 - 8.11.4 Zigong Great Wall Surface Engineering Technology Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Zigong Great Wall Surface Engineering Technology Recent Developments/Updates
 - 8.11.6 Zigong Great Wall Surface Engineering Technology Competitive Strengths & Weaknesses
- 8.12 BGRIMM Advanced Materials Science & Technology
 - 8.12.1 BGRIMM Advanced Materials Science & Technology Details
 - 8.12.2 BGRIMM Advanced Materials Science & Technology Major Business
 - 8.12.3 BGRIMM Advanced Materials Science & Technology Carbide-based Thermal Spray Powder Product and Services
 - 8.12.4 BGRIMM Advanced Materials Science & Technology Carbide-based Thermal Spray Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 BGRIMM Advanced Materials Science & Technology Recent Developments/Updates
 - 8.12.6 BGRIMM Advanced Materials Science & Technology Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Carbide-based Thermal Spray Powder Industry Chain

9.2 Carbide-based Thermal Spray Powder Upstream Analysis

9.2.1 Carbide-based Thermal Spray Powder Core Raw Materials

9.2.2 Main Manufacturers of Carbide-based Thermal Spray Powder Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Carbide-based Thermal Spray Powder Production Mode

9.6 Carbide-based Thermal Spray Powder Procurement Model

9.7 Carbide-based Thermal Spray Powder Industry Sales Model and Sales Channels

9.7.1 Carbide-based Thermal Spray Powder Sales Model

9.7.2 Carbide-based Thermal Spray Powder Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Carbide-based Thermal Spray Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Carbide-based Thermal Spray Powder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Carbide-based Thermal Spray Powder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Carbide-based Thermal Spray Powder Production Value Market Share by Region (2021-2026)

Table 5. World Carbide-based Thermal Spray Powder Production Value Market Share by Region (2027-2032)

Table 6. World Carbide-based Thermal Spray Powder Production by Region (2021-2026) & (Tons)

Table 7. World Carbide-based Thermal Spray Powder Production by Region (2027-2032) & (Tons)

Table 8. World Carbide-based Thermal Spray Powder Production Market Share by Region (2021-2026)

Table 9. World Carbide-based Thermal Spray Powder Production Market Share by Region (2027-2032)

Table 10. World Carbide-based Thermal Spray Powder Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Carbide-based Thermal Spray Powder Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Carbide-based Thermal Spray Powder Major Market Trends

Table 13. World Carbide-based Thermal Spray Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Carbide-based Thermal Spray Powder Consumption by Region (2021-2026) & (Tons)

Table 15. World Carbide-based Thermal Spray Powder Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Carbide-based Thermal Spray Powder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Carbide-based Thermal Spray Powder Producers in 2025

Table 18. World Carbide-based Thermal Spray Powder Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Carbide-based Thermal Spray Powder Producers in 2025

Table 20. World Carbide-based Thermal Spray Powder Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Carbide-based Thermal Spray Powder Company Evaluation Quadrant

Table 22. World Carbide-based Thermal Spray Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Carbide-based Thermal Spray Powder Production Site of Key Manufacturer

Table 24. Carbide-based Thermal Spray Powder Market: Company Product Type Footprint

Table 25. Carbide-based Thermal Spray Powder Market: Company Product Application Footprint

Table 26. Carbide-based Thermal Spray Powder Competitive Factors

Table 27. Carbide-based Thermal Spray Powder New Entrant and Capacity Expansion Plans

Table 28. Carbide-based Thermal Spray Powder Mergers & Acquisitions Activity

Table 29. United States VS China Carbide-based Thermal Spray Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Carbide-based Thermal Spray Powder Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Carbide-based Thermal Spray Powder Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Carbide-based Thermal Spray Powder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Carbide-based Thermal Spray Powder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Carbide-based Thermal Spray Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Carbide-based Thermal Spray Powder Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Carbide-based Thermal Spray Powder Production Market Share (2021-2026)

Table 37. China Based Carbide-based Thermal Spray Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Carbide-based Thermal Spray Powder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Carbide-based Thermal Spray Powder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Carbide-based Thermal Spray Powder Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Carbide-based Thermal Spray Powder Production Market Share (2021-2026)

Table 42. Rest of World Based Carbide-based Thermal Spray Powder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production Market Share (2021-2026)

Table 47. World Carbide-based Thermal Spray Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Carbide-based Thermal Spray Powder Production by Type (2021-2026) & (Tons)

Table 49. World Carbide-based Thermal Spray Powder Production by Type (2027-2032) & (Tons)

Table 50. World Carbide-based Thermal Spray Powder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Carbide-based Thermal Spray Powder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Carbide-based Thermal Spray Powder Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Carbide-based Thermal Spray Powder Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Carbide-based Thermal Spray Powder Production Value by Binder Phase, (USD Million), 2021 & 2025 & 2032

Table 55. World Carbide-based Thermal Spray Powder Production by Binder Phase (2021-2026) & (Tons)

Table 56. World Carbide-based Thermal Spray Powder Production by Binder Phase (2027-2032) & (Tons)

Table 57. World Carbide-based Thermal Spray Powder Production Value by Binder Phase (2021-2026) & (USD Million)

Table 58. World Carbide-based Thermal Spray Powder Production Value by Binder Phase (2027-2032) & (USD Million)

Table 59. World Carbide-based Thermal Spray Powder Average Price by Binder Phase

(2021-2026) & (US\$/kg)

Table 60. World Carbide-based Thermal Spray Powder Average Price by Binder Phase (2027-2032) & (US\$/kg)

Table 61. World Carbide-based Thermal Spray Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Carbide-based Thermal Spray Powder Production by Application (2021-2026) & (Tons)

Table 63. World Carbide-based Thermal Spray Powder Production by Application (2027-2032) & (Tons)

Table 64. World Carbide-based Thermal Spray Powder Production Value by Application (2021-2026) & (USD Million)

Table 65. World Carbide-based Thermal Spray Powder Production Value by Application (2027-2032) & (USD Million)

Table 66. World Carbide-based Thermal Spray Powder Average Price by Application (2021-2026) & (US\$/kg)

Table 67. World Carbide-based Thermal Spray Powder Average Price by Application (2027-2032) & (US\$/kg)

Table 68. Oerlikon Metco Basic Information, Manufacturing Base and Competitors

Table 69. Oerlikon Metco Major Business

Table 70. Oerlikon Metco Carbide-based Thermal Spray Powder Product and Services

Table 71. Oerlikon Metco Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Oerlikon Metco Recent Developments/Updates

Table 73. Oerlikon Metco Competitive Strengths & Weaknesses

Table 74. H?gan?s Basic Information, Manufacturing Base and Competitors

Table 75. H?gan?s Major Business

Table 76. H?gan?s Carbide-based Thermal Spray Powder Product and Services

Table 77. H?gan?s Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. H?gan?s Recent Developments/Updates

Table 79. H?gan?s Competitive Strengths & Weaknesses

Table 80. Linde Advanced Material Technologies Basic Information, Manufacturing Base and Competitors

Table 81. Linde Advanced Material Technologies Major Business

Table 82. Linde Advanced Material Technologies Carbide-based Thermal Spray Powder Product and Services

Table 83. Linde Advanced Material Technologies Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross

Margin and Market Share (2021-2026)

Table 84. Linde Advanced Material Technologies Recent Developments/Updates

Table 85. Linde Advanced Material Technologies Competitive Strengths & Weaknesses

Table 86. Buffalo Tungsten Basic Information, Manufacturing Base and Competitors

Table 87. Buffalo Tungsten Major Business

Table 88. Buffalo Tungsten Carbide-based Thermal Spray Powder Product and Services

Table 89. Buffalo Tungsten Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Buffalo Tungsten Recent Developments/Updates

Table 91. Buffalo Tungsten Competitive Strengths & Weaknesses

Table 92. DURUM Basic Information, Manufacturing Base and Competitors

Table 93. DURUM Major Business

Table 94. DURUM Carbide-based Thermal Spray Powder Product and Services

Table 95. DURUM Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. DURUM Recent Developments/Updates

Table 97. DURUM Competitive Strengths & Weaknesses

Table 98. Polymet Basic Information, Manufacturing Base and Competitors

Table 99. Polymet Major Business

Table 100. Polymet Carbide-based Thermal Spray Powder Product and Services

Table 101. Polymet Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Polymet Recent Developments/Updates

Table 103. Polymet Competitive Strengths & Weaknesses

Table 104. Powder Alloy Corporation Basic Information, Manufacturing Base and Competitors

Table 105. Powder Alloy Corporation Major Business

Table 106. Powder Alloy Corporation Carbide-based Thermal Spray Powder Product and Services

Table 107. Powder Alloy Corporation Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Powder Alloy Corporation Recent Developments/Updates

Table 109. Powder Alloy Corporation Competitive Strengths & Weaknesses

Table 110. Kennametal Basic Information, Manufacturing Base and Competitors

Table 111. Kennametal Major Business

Table 112. Kennametal Carbide-based Thermal Spray Powder Product and Services

Table 113. Kennametal Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Kennametal Recent Developments/Updates

Table 115. Kennametal Competitive Strengths & Weaknesses

Table 116. Wall Colmonoy Basic Information, Manufacturing Base and Competitors

Table 117. Wall Colmonoy Major Business

Table 118. Wall Colmonoy Carbide-based Thermal Spray Powder Product and Services

Table 119. Wall Colmonoy Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Wall Colmonoy Recent Developments/Updates

Table 121. Wall Colmonoy Competitive Strengths & Weaknesses

Table 122. XTC Luoyang Golden Egret Geotools Basic Information, Manufacturing Base and Competitors

Table 123. XTC Luoyang Golden Egret Geotools Major Business

Table 124. XTC Luoyang Golden Egret Geotools Carbide-based Thermal Spray Powder Product and Services

Table 125. XTC Luoyang Golden Egret Geotools Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. XTC Luoyang Golden Egret Geotools Recent Developments/Updates

Table 127. XTC Luoyang Golden Egret Geotools Competitive Strengths & Weaknesses

Table 128. Zigong Great Wall Surface Engineering Technology Basic Information, Manufacturing Base and Competitors

Table 129. Zigong Great Wall Surface Engineering Technology Major Business

Table 130. Zigong Great Wall Surface Engineering Technology Carbide-based Thermal Spray Powder Product and Services

Table 131. Zigong Great Wall Surface Engineering Technology Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Zigong Great Wall Surface Engineering Technology Recent Developments/Updates

Table 133. Zigong Great Wall Surface Engineering Technology Competitive Strengths & Weaknesses

Table 134. BGRIMM Advanced Materials Science & Technology Basic Information, Manufacturing Base and Competitors

Table 135. BGRIMM Advanced Materials Science & Technology Major Business

Table 136. BGRIMM Advanced Materials Science & Technology Carbide-based Thermal Spray Powder Product and Services

Table 137. BGRIMM Advanced Materials Science & Technology Carbide-based Thermal Spray Powder Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. BGRIMM Advanced Materials Science & Technology Recent Developments/Updates

Table 139. BGRIMM Advanced Materials Science & Technology Competitive Strengths & Weaknesses

Table 140. Global Key Players of Carbide-based Thermal Spray Powder Upstream (Raw Materials)

Table 141. Global Carbide-based Thermal Spray Powder Typical Customers

Table 142. Carbide-based Thermal Spray Powder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Carbide-based Thermal Spray Powder Picture

Figure 2. World Carbide-based Thermal Spray Powder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Carbide-based Thermal Spray Powder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Carbide-based Thermal Spray Powder Production (2021-2032) & (Tons)

Figure 5. World Carbide-based Thermal Spray Powder Average Price (2021-2032) & (US\$/kg)

Figure 6. World Carbide-based Thermal Spray Powder Production Value Market Share by Region (2021-2032)

Figure 7. World Carbide-based Thermal Spray Powder Production Market Share by Region (2021-2032)

Figure 8. North America Carbide-based Thermal Spray Powder Production (2021-2032) & (Tons)

Figure 9. Europe Carbide-based Thermal Spray Powder Production (2021-2032) & (Tons)

Figure 10. China Carbide-based Thermal Spray Powder Production (2021-2032) & (Tons)

Figure 11. Carbide-based Thermal Spray Powder Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 14. World Carbide-based Thermal Spray Powder Consumption Market Share by Region (2021-2032)

Figure 15. United States Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 16. China Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 17. Europe Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 18. Japan Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 19. South Korea Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 20. ASEAN Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 21. India Carbide-based Thermal Spray Powder Consumption (2021-2032) & (Tons)

Figure 22. Producer Shipments of Carbide-based Thermal Spray Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Carbide-based Thermal Spray Powder Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Carbide-based Thermal Spray Powder Markets in 2025

Figure 25. United States VS China: Carbide-based Thermal Spray Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Carbide-based Thermal Spray Powder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Carbide-based Thermal Spray Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Carbide-based Thermal Spray Powder Production Market Share 2025

Figure 29. China Based Manufacturers Carbide-based Thermal Spray Powder Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Carbide-based Thermal Spray Powder Production Market Share 2025

Figure 31. World Carbide-based Thermal Spray Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Carbide-based Thermal Spray Powder Production Value Market Share by Type in 2025

Figure 33. Tungsten Carbide

Figure 34. Chromium Carbide

Figure 35. Other

Figure 36. World Carbide-based Thermal Spray Powder Production Market Share by Type (2021-2032)

Figure 37. World Carbide-based Thermal Spray Powder Production Value Market Share by Type (2021-2032)

Figure 38. World Carbide-based Thermal Spray Powder Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. World Carbide-based Thermal Spray Powder Production Value by Binder Phase, (USD Million), 2021 & 2025 & 2032

Figure 40. World Carbide-based Thermal Spray Powder Production Value Market Share by Binder Phase in 2025

Figure 41. Cobalt Binder

Figure 42. Cobalt-Chromium Binder

Figure 43. Nickel Binder

Figure 44. Other

Figure 45. World Carbide-based Thermal Spray Powder Production Market Share by Binder Phase (2021-2032)

Figure 46. World Carbide-based Thermal Spray Powder Production Value Market Share by Binder Phase (2021-2032)

Figure 47. World Carbide-based Thermal Spray Powder Average Price by Binder Phase (2021-2032) & (US\$/kg)

Figure 48. World Carbide-based Thermal Spray Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Carbide-based Thermal Spray Powder Production Value Market Share by Application in 2025

Figure 50. Aerospace

Figure 51. Petrochemical

Figure 52. Iron and Steel Metallurgy

Figure 53. Construction Machinery

Figure 54. Energy and Power

Figure 55. Other

Figure 56. World Carbide-based Thermal Spray Powder Production Market Share by Application (2021-2032)

Figure 57. World Carbide-based Thermal Spray Powder Production Value Market Share by Application (2021-2032)

Figure 58. World Carbide-based Thermal Spray Powder Average Price by Application (2021-2032) & (US\$/kg)

Figure 59. Carbide-based Thermal Spray Powder Industry Chain

Figure 60. Carbide-based Thermal Spray Powder Procurement Model

Figure 61. Carbide-based Thermal Spray Powder Sales Model

Figure 62. Carbide-based Thermal Spray Powder Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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