

Global Carbide-based Thermal Spray Powder 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 Carbide-based Thermal Spray Powder market size was valued at US\$ 643 million in 2025 and is forecast to a readjusted size of US\$ 845 million by 2032 with a CAGR of 4.0% during review period.

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, HVAF, 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 is a detailed and comprehensive analysis for global Carbide-based Thermal Spray Powder 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 Carbide-based Thermal Spray Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Carbide-based Thermal Spray Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Carbide-based Thermal Spray Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Carbide-based Thermal Spray Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Carbide-based Thermal Spray Powder

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 Carbide-based Thermal Spray Powder 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 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.

Market Segmentation

Carbide-based Thermal Spray Powder market is split by Type and by Application. For the period 2021-2032, 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

Tungsten Carbide

Chromium Carbide

Other

Market segment by Binder Phase

Cobalt Binder

Cobalt-Chromium Binder

Nickel Binder

Other

Market segment by Application

Aerospace

Petrochemical

Iron and Steel Metallurgy

Construction Machinery

Energy and Power

Other

Major players covered

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

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 Carbide-based Thermal Spray Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbide-based Thermal Spray Powder, with price, sales quantity, revenue, and global market share of Carbide-based Thermal Spray Powder from 2021 to 2026.

Chapter 3, the Carbide-based Thermal Spray Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbide-based Thermal Spray Powder 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 Type and by Application, with sales market share and growth rate by 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 Carbide-based Thermal Spray Powder market forecast, by regions, by 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 Carbide-based Thermal Spray Powder.

Chapter 14 and 15, to describe Carbide-based Thermal Spray Powder sales channel, distributors, customers, research findings and conclusion.

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