

Global Cast Tungsten Carbide Powders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cast Tungsten Carbide Powders market size is expected to reach \$ 105 million by 2032, rising at a market growth of 2.2% CAGR during the forecast period (2026-2032).

Cast tungsten carbide powder is a high-hardness, wear-resistant powder material made primarily from tungsten and tungsten carbide. It is produced through high-temperature melting, casting, rapid cooling, crushing, screening, or further spheroidization. Its typical microstructure is a eutectic structure composed of WC and W₂C, giving it a high melting point, high hardness, strong wear resistance, erosion resistance, and good chemical stability. This product is mainly used to solve surface strengthening problems under severe abrasive wear, impact wear, particle erosion, and localized failure conditions in mining, oil and gas drilling, construction machinery, metalworking, aerospace surface engineering, and industrial wear parts. Common delivery forms include irregular crushed powder, spherical cast powder, non-magnetic cast powder, nickel-based or iron-based blended powder, and customized particle-size products for hardfacing, thermal spraying, laser cladding, plasma transferred arc welding, diamond tool infiltration, and powder metallurgy sintering. Its customers mainly include hardfacing consumable manufacturers, thermal spray material suppliers, drilling tool manufacturers, wear-part producers, surface engineering service providers, and high-end manufacturing companies.

The industrial value of cast tungsten carbide powder comes from its ability to replace materials in extreme wear environments. Compared with conventional tungsten carbide powder, cast tungsten carbide powder is typically produced through melting, casting, rapid cooling, crushing, and classification to form a eutectic WC and W₂C structure. It offers high hardness, strong wear resistance, and outstanding erosion resistance,

enabling it to serve as a hard reinforcing phase in mining, oil and gas drilling, construction machinery, drilling tools, and industrial wear parts. This product is not merely a powder raw material, but a key functional material in surface engineering, hardfacing consumables, and drilling tool systems. Its value is mainly reflected in extending component service life, reducing downtime and maintenance, improving operating stability under harsh conditions, and lowering life-cycle costs. As users place higher requirements on equipment reliability, wear control, and maintenance intervals, demand for cast tungsten carbide powder is expected to expand beyond traditional welding consumables and drilling tools into high-performance coatings, remanufacturing repair, and automated powder-feeding processes.

In terms of product structure, cast tungsten carbide powder is evolving from a single crushed powder category toward spherical powder, non-magnetic powder, metal-matrix blended powder, and customized particle-size products. Irregular crushed powder remains suitable for drill bit matrices, hardfacing consumables, and certain sintering applications, with key advantages in high hardness, mature applications, and relatively controllable cost. Spherical cast tungsten carbide powder is better suited for automated processes such as thermal spraying, laser cladding, and plasma transferred arc welding, where flowability, packing density, and powder-feeding stability are critical for high-end coating production. Metal-matrix blended powder further combines the hard phase with the bonding phase, enabling coatings or hardfacing layers to achieve wear resistance, bonding strength, and crack resistance at the same time. Future competition will depend not only on the ability to supply powder, but also on particle-size distribution control, spheroidization rate, oxygen content, flowability, microstructural stability, and downstream process compatibility.

From a regional perspective, the supply of cast tungsten carbide powder has clear barriers related to resources, metallurgical processing, and customer qualification. Chinese companies have advantages in tungsten resources, powder metallurgy processing, and customized supply, and have become active suppliers in spherical powder, thermal spray powder, and hardfacing materials. Companies under European, American, and Japanese parent-company systems place stronger emphasis on high purity, stable particle size, process control, and material solutions for high-end customers in aerospace, oil and gas, energy, and metalworking. Downstream consumption is closely tied to demand from mining, oil and gas drilling, construction machinery, aerospace maintenance, and industrial remanufacturing, making North America, Europe, China, and regions with intensive resource development the main consumption areas. Future industry growth will be supported by wear-resistance upgrades in high-end equipment, longer drilling tool life, green remanufacturing, hard-

chrome replacement coatings, and the expansion of automated surface engineering processes, resulting in an overall positive outlook.

This report studies the global Cast Tungsten Carbide Powders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cast Tungsten Carbide Powders 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 Cast Tungsten Carbide Powders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cast Tungsten Carbide Powders total production and demand, 2021-2032, (Tons)

Global Cast Tungsten Carbide Powders total production value, 2021-2032, (USD Million)

Global Cast Tungsten Carbide Powders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Cast Tungsten Carbide Powders consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Cast Tungsten Carbide Powders domestic production, consumption, key domestic manufacturers and share

Global Cast Tungsten Carbide Powders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Cast Tungsten Carbide Powders production by Packaging Form, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Cast Tungsten Carbide Powders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Cast Tungsten Carbide Powders 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 Xiamen Tungsten (XTC Luoyang Golden Egret), Kennametal, Mitsubishi Materials Corporation (H.C.Starck), Plansee Group (GTP), Oerlikon Metco, Lineage Alloys, B?renberg Special Materials GmbH, Chengdu Jinchun Metallic Materials Co., Ltd., Foshan Chengfeng Materials Technology Co., Ltd., Hebei Santai Alloy Welding Materials Co., Ltd., 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 Cast Tungsten Carbide Powders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Packaging Form, 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 Cast Tungsten Carbide Powders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cast Tungsten Carbide Powders Market, Segmentation by Packaging Form:

Vial-Packaged Powder

Drum-Packaged Powder

Others

Global Cast Tungsten Carbide Powders Market, Segmentation by Particle Morphology:

Irregular Crushed Particles

Spherical Particles

Global Cast Tungsten Carbide Powders Market, Segmentation by Process:

Plasma Transferred Arc Hardfacing

Laser Cladding

Thermal Spraying

Infiltration Sintering

Hot-Press Sintering

Global Cast Tungsten Carbide Powders Market, Segmentation by Application:

Oil and Gas Drilling

Mining Engineering

Construction Machinery

Aerospace

Metalworking

General Wear Parts

Companies Profiled:

Xiamen Tungsten (XTC Luoyang Golden Egret)

Kennametal

Mitsubishi Materials Corporation (H.C.Starck)

Plansee Group (GTP)

Oerlikon Metco

Lineage Alloys

Brenberg Special Materials GmbH

Chengdu Jinchun Metallic Materials Co., Ltd.

Foshan Chengfeng Materials Technology Co., Ltd.

Hebei Santai Alloy Welding Materials Co., Ltd.

Key Questions Answered:

1. How big is the global Cast Tungsten Carbide Powders market?
2. What is the demand of the global Cast Tungsten Carbide Powders market?
3. What is the year over year growth of the global Cast Tungsten Carbide Powders market?
4. What is the production and production value of the global Cast Tungsten Carbide Powders market?
5. Who are the key producers in the global Cast Tungsten Carbide Powders market?
6. What are the growth factors driving the market demand?

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