

Global Cast Tungsten Carbide Powders Market Growth 2026-2032

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Abstracts

The global Cast Tungsten Carbide Powders market size is predicted to grow from US\$ 80.83 million in 2025 to US\$ 101 million in 2032; it is expected to grow at a CAGR of 2.3% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Cast Tungsten Carbide Powders landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cast Tungsten Carbide Powders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cast Tungsten Carbide Powders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cast Tungsten Carbide Powders and breaks down the forecast by Packaging Form, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cast Tungsten Carbide Powders.

This report presents a comprehensive overview, market shares, and growth opportunities of Cast Tungsten Carbide Powders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Packaging Form:

Vial-Packaged Powder

Drum-Packaged Powder

Others

Segmentation by Particle Morphology:

Irregular Crushed Particles

Spherical Particles

Segmentation by Process:

Plasma Transferred Arc Hardfacing

Laser Cladding

Thermal Spraying

Infiltration Sintering

Hot-Press Sintering

Segmentation by Application:

Oil and Gas Drilling

Mining Engineering

Construction Machinery

Aerospace

Metalworking

General Wear Parts

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Cast Tungsten Carbide Powders market?

What factors are driving Cast Tungsten Carbide Powders market growth, globally and by region?

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

How do Cast Tungsten Carbide Powders market opportunities vary by end market size?

How does Cast Tungsten Carbide Powders break out by Packaging Form, by Application?

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