

Global Cobalt Alloy Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cobalt Alloy Powder market size is expected to reach \$ 489 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Cobalt alloy powder refers to metallic powder in which cobalt is the base metal or a major functional alloying element and includes Co-Cr-Mo, Co-Cr-W, Co-Ni-Cr-Mo, CoNiCrAlY and Stellite-type cobalt-base powders. It is used in additive manufacturing, metal injection molding, thermal spray, laser cladding, hardfacing, medical and dental parts, aerospace, energy and wear/corrosion-resistant components. Pure cobalt powder, cobalt compounds and battery cobalt chemicals should normally be excluded from this market scope. In 2025, global Cobalt alloy powder production reached approximately 3246.41 Kilotons. The upstream supply chain consists of cobalt metal, chromium, molybdenum, tungsten, nickel, aluminum, yttrium and other alloying elements, together with atomization equipment, industrial gases, sieving/classification systems and powder testing instruments. Cobalt raw material prices are affected by mining and refining supply from the DRC, Indonesia, Australia, Canada and other regions. Lower cobalt prices can reduce powder cost, but raw-material volatility remains a key risk.

The global cobalt alloy powder market is a specialized segment within advanced metal powders, primarily serving high-value manufacturing industries such as additive manufacturing (3D printing), thermal spray coatings, laser cladding, metal injection molding (MIM), and hardfacing applications. These powders are typically based on Co-Cr-Mo, Co-Ni-Cr-Mo, and Stellite-type alloys, valued for their excellent wear resistance, corrosion resistance, and high-temperature stability. Demand is strongly concentrated in aerospace engines, medical and dental implants, oil & gas components, and industrial tooling repair, where performance reliability under extreme conditions is critical. Market

growth is increasingly driven by the expansion of metal additive manufacturing in medical and aerospace applications, where cobalt-chromium powders are widely used for biocompatible implants and precision components. However, growth is partially constrained by cobalt raw material price volatility and substitution pressure from nickel-based alloys and titanium materials in certain end uses. Overall, the market is characterized by high technical barriers, stringent certification requirements, and relatively small but high-margin volumes, making it a niche but strategically important segment within advanced functional metal powders.

This report studies the global Cobalt Alloy Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cobalt Alloy 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 Cobalt Alloy Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cobalt Alloy Powder total production and demand, 2021-2032, (Kiloton)

Global Cobalt Alloy Powder total production value, 2021-2032, (USD Million)

Global Cobalt Alloy Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global Cobalt Alloy Powder consumption by region & country, CAGR, 2021-2032 & (Kiloton)

U.S. VS China: Cobalt Alloy Powder domestic production, consumption, key domestic manufacturers and share

Global Cobalt Alloy Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global Cobalt Alloy Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global Cobalt Alloy Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global Cobalt Alloy 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 Sandvik Materials Technology, Umicore Cobalt and Specialty Materials, CNPC Powder Group, Metal Powder and Process Ltd,

American Elements, Hanrui Cobalt, ATI Metals, VDM Metal, Powder Alloy Corporation, Kennametal, 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 Cobalt Alloy Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) and average price (US\$/Ton) 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 Cobalt Alloy Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cobalt Alloy Powder Market, Segmentation by Type:

CoCr Alloy Powder

CoCrMo Alloy Powder

CoCrNi Alloy Powder

Others

Global Cobalt Alloy Powder Market, Segmentation by Powdering Processes:

Gas-atomized

Water-atomized

Plasma/PREP

Others

Global Cobalt Alloy Powder Market, Segmentation by Powder Morphology:

Spherical

Irregular

Near-spherical Powde

Global Cobalt Alloy Powder Market, Segmentation by Particle Size:

0?15 ?m

15?45 ?m

15?53 ?m

45?105 ?m

>105 ?m

Global Cobalt Alloy Powder Market, Segmentation by Application:

Additive Manufacturing and 3D Printing

Brazing

Metal Injection Molding

Plasma and thermal spray applications

Others

Companies Profiled:

Sandvik Materials Technology

Umicore Cobalt and Specialty Materials

CNPC Powder Group

Metal Powder and Process Ltd

American Elements

Hanrui Cobalt

ATI Metals

VDM Metal

Powder Alloy Corporation

Kennametal

Material Technology Innovations Co., Ltd

Praxair Surface Technologies

Stanford Advanced Materials

Shanghai Global Fusion Materials Technology Co

Chengdu Huarui Industrial Materials Co

Key Questions Answered:

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

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