

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

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Abstracts

The global High-Entropy Alloy Powder market size is expected to reach \$ 1767 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

In 2025, global High-Entropy Alloy Powder production reached approximately 20,000 tons, with an average global market price of around US\$38,000 per ton.

The gross profit margin of major companies in the industry is between 28% ? 46%.

In 2025, the global production capacity of High-Entropy Alloy Powder was approximately 26,667 tons.

High-Entropy Alloy Powder is a metallic powder material composed of multiple principal elements in near-equal proportions, designed to deliver unique combinations of strength, wear resistance, thermal stability, and corrosion resistance. It is increasingly used in additive manufacturing, coatings, advanced tools, and high-performance structural materials.

The industrial chain of High-Entropy Alloy Powder includes upstream metal elements, alloy feedstocks, atomization equipment, protective gases, sieving systems, and packaging materials. Midstream covers alloy melting, powder atomization, classification, heat treatment, and quality inspection. Downstream applications mainly include additive manufacturing, thermal spraying, tooling, aerospace components, and advanced industrial materials.

This report studies the global High-Entropy Alloy Powder production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global High-Entropy Alloy Powder total production and demand, 2021-2032, (Kilotons)

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

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

Global High-Entropy Alloy Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

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

Global High-Entropy Alloy Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High-Entropy Alloy Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High-Entropy 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 H?gan?s, Sandvik (Osprey), Carpenter Technology, VDM Metals, Tekna, AMG Superalloys, Kymera International, Oerlikon Metco, Antai Technology, Avic Hi-tech, 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 High-Entropy Alloy Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 High-Entropy Alloy Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Entropy Alloy Powder Market, Segmentation by Type:

Gas Atomization HEA Powder

Plasma Atomization HEA Powder

Mechanical Alloying HEA Powder

Global High-Entropy Alloy Powder Market, Segmentation By Alloy System:

Fe-Based High-Entropy Alloy Powder

Co-Based High-Entropy Alloy Powder

Ni-Based High-Entropy Alloy Powder

Global High-Entropy Alloy Powder Market, Segmentation By Particle Size Parameter:

Coarse Powder (>50 μ m)

Medium Powder (15-50 μ m)

Fine Powder (<15 μ m)

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