

Global High-Entropy Alloy 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 High-Entropy Alloy Powder market size was valued at US\$ 782 million in 2025 and is forecast to a readjusted size of US\$ 1767 million by 2032 with a CAGR of 12.3% during review period.

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 is a detailed and comprehensive analysis for global High-Entropy Alloy 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 High-Entropy Alloy Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-Entropy Alloy Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-Entropy Alloy Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-Entropy Alloy Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 High-Entropy Alloy 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 High-Entropy Alloy 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 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.

Market Segmentation

High-Entropy Alloy 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

- Gas Atomization HEA Powder

- Plasma Atomization HEA Powder

- Mechanical Alloying HEA Powder

Market segment By Alloy System

- Fe-Based High-Entropy Alloy Powder

- Co-Based High-Entropy Alloy Powder

- Ni-Based High-Entropy Alloy Powder

Market segment By Particle Size Parameter

- Coarse Powder (>50 ?m)

- Medium Powder (15?50 ?m)

- Fine Powder (

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