

Global Zirconium-based Bulk Amorphous Alloy 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 Zirconium-based Bulk Amorphous Alloy market size was valued at US\$ 59.68 million in 2025 and is forecast to a readjusted size of US\$ 137 million by 2032 with a CAGR of 13.0% during review period.

Zirconium-based bulk amorphous alloy (often called a metallic glass) is a multi-element metallic material with a disordered, non-crystalline atomic structure. Unlike standard metals where atoms arrange in a rigid grid, these alloys boast a random liquid-like structure that gives them exceptional strength, elasticity, and corrosion resistance.

In 2025, global Zirconium-based Bulk Amorphous Alloy production reached 207 tons, with an average selling price of 280 USD/kg, and total production capacity of approximately 260 tons. The zirconium-based bulk amorphous alloy industry has an estimated gross margin of 30%-40%. In the cost structure, direct materials account for approximately 55%, manufacturing expenses account for approximately 35%, and labor costs account for approximately 10%. The industry supply chain consists of upstream high-purity metal raw materials such as zirconium, copper, nickel, aluminum, and titanium, as well as master alloys and zirconium-based amorphous alloy powders, while downstream applications include consumer electronics, medical devices, automotive products, robotics, aerospace, and precision industrial components.

The global zirconium-based bulk amorphous alloy market is driven by demand for material performance upgrades across high-end manufacturing sectors. Boasting outstanding properties such as high strength, superior elasticity, wear resistance and corrosion resistance, these materials continuously replace traditional crystalline metals

and deepen their penetration in precision consumer electronics components, medical devices, aerospace parts and precision instruments. The evolution of downstream end products toward slimmer form factors, higher reliability and longer service life further amplifies the material's performance advantages and expands market potential. The market features high entry barriers centered on alloy formulation design, precision manufacturing processes and large-size bulk forming capabilities. Players with core technologies hold a dominant position, while participants with upstream raw material integration capabilities boast stronger cost control and supply chain stability. Local technological breakthroughs in major manufacturing regions drive steady capacity expansion on the supply side. R&D efforts focus on enhancing glass forming ability, optimizing production processes and cutting mass production costs, breaking size constraints via material system iteration and process improvement to broaden application scenarios. The Asia Pacific stands as the core global production and consumption market supported by a complete electronics manufacturing chain. North America and Europe concentrate on high-end applications with stricter compliance and reliability standards. Industrial support policies for advanced new materials across major economies underpin the development of local participants.

This report is a detailed and comprehensive analysis for global Zirconium-based Bulk Amorphous Alloy 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 Zirconium-based Bulk Amorphous Alloy market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Zirconium-based Bulk Amorphous Alloy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Zirconium-based Bulk Amorphous Alloy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Zirconium-based Bulk Amorphous Alloy market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 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 Zirconium-based Bulk Amorphous Alloy

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 Zirconium-based Bulk Amorphous Alloy 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 Heraeus AMLOY, Dongguan EONTEC, Liquidmetal Technologies, Orbray, Stream Metal, Eutectix, Glassimetal Technology, Prometaltech, Jiangsu Hundun New Material, Peshing New Metal, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Zirconium-based Bulk Amorphous Alloy 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

Zirconium Content >70%

Zirconium Content <70%

Market segment by Process

Die-casting

Injection Molding

Additive Manufacturing

Others

Market segment by Application

Consumer Electronics

Medical Devices

Automotive and Aerospace

Others

Major players covered

Heraeus AMLOY

Dongguan EONTEC

Liquidmetal Technologies

Orbray

Stream Metal

Eutectix

Glassimetal Technology

Prometaltech

Jiangsu Hundun New Material

Peshing New Metal

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Zirconium-based Bulk Amorphous Alloy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Zirconium-based Bulk Amorphous Alloy, with price, sales quantity, revenue, and global market share of Zirconium-based Bulk Amorphous Alloy from 2021 to 2026.

Chapter 3, the Zirconium-based Bulk Amorphous Alloy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Zirconium-based Bulk Amorphous Alloy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Zirconium-based Bulk Amorphous Alloy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Zirconium-based Bulk Amorphous Alloy.

Chapter 14 and 15, to describe Zirconium-based Bulk Amorphous Alloy sales channel, distributors, customers, research findings and conclusion.

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