

Global Yttrium Disilicide 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 Yttrium Disilicide market size was valued at US\$ 14.20 million in 2025 and is forecast to a readjusted size of US\$ 29.97 million by 2032 with a CAGR of 11.2% during review period.

In 2025, global sales volume of Yttrium Disilicide was approximately 15 tons, with an average global market price of about USD 920/kg. Gross margins of major industry producers were generally in the range of 30%-45%.

Yttrium Disilicide is a rare-earth metal silicide material with the molecular formula YSi_2 and CAS No. 12067-55-9. The product is typically supplied as grey or silver-grey powder, bulk material or sputtering target, featuring a relatively high melting point, good high-temperature stability, electrical conductivity and oxidation-resistance potential. Compared with ordinary silicon powder or yttrium oxide, Yttrium Disilicide is characterized by the combined features of rare-earth elements and silicide structure. Its technical value is mainly reflected in high-purity preparation, phase composition control, particle size control, low-oxygen and low-impurity control, and target forming capability.

Its upstream mainly includes yttrium metal, silicon powder, inert gases, vacuum melting consumables, milling media and packaging materials. The midstream typically involves the preparation of powder, bulk material or sputtering targets through vacuum melting, powder metallurgy, mechanical crushing, air classification and sintering forming processes, with purity, particle size, oxygen content and metal impurities controlled according to electronic-grade or industrial-grade requirements. End-use applications mainly include aerospace, electronics and semiconductors, new energy photovoltaics, high-temperature industry and customized research materials. Overall, the product is a

small-volume specialty material, with market value primarily concentrated in high-purity powder preparation, composition stability, particle size consistency, high-temperature performance and customized delivery capability.

This report is a detailed and comprehensive analysis for global Yttrium Disilicide 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 Yttrium Disilicide market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Yttrium Disilicide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Yttrium Disilicide 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 Yttrium Disilicide 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 Yttrium Disilicide

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 Yttrium Disilicide 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 American Elements, E FORU Materials, Aritech Innovations, Hunan Huawei Jingcheng Material Technology, Jinzhou Haixin Metal Material, Beijing Deco Island Gold Technology, etc.

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

Market Segmentation

Yttrium Disilicide 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

Industrial Grade

Electronic Grade

Market segment by Form

Powder

Bulk Material

Target Material

Market segment by Application

Aerospace

Electronics Semiconductor

New Energy Photovoltaic

High-Temperature Industry

Other

Major players covered

American Elements

E FORU Materials

Aritech Innovations

Hunan Huawei Jingcheng Material Technology

Jinzhou Haixin Metal Material

Beijing Deco Island Gold Technology

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 Yttrium Disilicide product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Yttrium Disilicide, with price, sales quantity, revenue, and global market share of Yttrium Disilicide from 2021 to 2026.

Chapter 3, the Yttrium Disilicide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Yttrium Disilicide 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 Yttrium Disilicide 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 Yttrium Disilicide.

Chapter 14 and 15, to describe Yttrium Disilicide sales channel, distributors, customers, research findings and conclusion.

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