

Global Yttrium(III) Oxide 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(III) Oxide market size was valued at US\$ 1058 million in 2025 and is forecast to a readjusted size of US\$ 1727 million by 2032 with a CAGR of 7.2% during review period.

Yttrium(III) Oxide is a high-purity rare-earth oxide compound produced from the rare-earth element yttrium and widely used in advanced ceramics, phosphors, electronics, and semiconductor manufacturing due to its excellent thermal stability, chemical inertness, high melting point (~2,430 °C), and plasma resistance. The supply chain of yttrium oxide begins with the mining of rare-earth ores such as bastnäsite, monazite, or ion-adsorption clays (primarily in China, with additional production in Australia, the United States, and Myanmar), followed by beneficiation and rare-earth separation processes using solvent extraction to isolate yttrium from other rare-earth elements. The separated yttrium compounds are then converted into yttrium oxide through precipitation, calcination, and purification steps, producing high-purity grades (often 99.9–99.999%). Downstream processing includes powder processing, ceramic fabrication, and chemical formulation for applications such as plasma-resistant coatings for semiconductor etching equipment, phosphors for LEDs and displays, transparent ceramics, solid oxide fuel cells, laser crystals (e.g., YAG), and optical materials, which are ultimately supplied to industries including semiconductors, electronics, energy systems, aerospace, and advanced optics. In 2025, global Yttrium(III) Oxide output was about 24,000 tons with 38,000 tons of capacity, average prices of USD 35,000 – 55,000 per ton, and gross margins around 33%.

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

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

Global Yttrium(III) Oxide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Yttrium(III) Oxide market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Yttrium(III) Oxide
- 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(III) Oxide 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 China Minmetals (China), China Rare Earth Group (China), Longyi Heavy Rare Earth (China), Xiamen Tungsten (China), Chinalco Rare Earth & Metals (China), Guangdong Rising Rare Earth (China), Santoku Corporation (Japan), Nippon Yttrium (Japan), American Elements (USA), Stanford Advanced Materials (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Yttrium(III) Oxide 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

High-Purity Grade

Ultra-High-Purity Grade

Market segment by Production Method

Calcined Yttrium(III) Oxide

Precipitated Yttrium(III) Oxide

Sol-Gel Yttrium(III) Oxide

Hydrothermal Yttrium(III) Oxide

Market segment by Application

Semiconductor

Optoelectronic

Advanced Ceramic

Fuel Cell

Others

Major players covered

China Minmetals (China)

China Rare Earth Group (China)

Longyi Heavy Rare Earth (China)

Xiamen Tungsten (China)

Chinalco Rare Earth & Metals (China)

Guangdong Rising Rare Earth (China)

Santoku Corporation (Japan)

Nippon Yttrium (Japan)

American Elements (USA)

Stanford Advanced Materials (USA)

Lorad Chemical Corporation (USA)

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(III) Oxide product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Yttrium(III) Oxide 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(III) Oxide 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(III) Oxide.

Chapter 14 and 15, to describe Yttrium(III) Oxide sales channel, distributors, customers, research findings and conclusion.

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