

Global Yttrium(III) Oxide Market Growth 2026-2032

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Abstracts

The global Yttrium(III) Oxide market size is predicted to grow from US\$ 1006 million in 2025 to US\$ 1683 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

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 99.9999%). 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%.

United States market for Yttrium(III) Oxide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Yttrium(III) Oxide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Yttrium(III) Oxide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Yttrium(III) Oxide players cover China Minmetals (China), China Rare Earth Group (China), Longyi Heavy Rare Earth (China), Xiamen Tungsten (China), Chinalco Rare Earth & Metals (China), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Yttrium(III) Oxide Industry Forecast' looks at past sales and reviews total world Yttrium(III) Oxide sales in 2025, providing a comprehensive analysis by region and market sector of projected Yttrium(III) Oxide sales for 2026 through 2032. With Yttrium(III) Oxide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Yttrium(III) Oxide industry.

This Insight Report provides a comprehensive analysis of the global Yttrium(III) Oxide landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Yttrium(III) Oxide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Yttrium(III) Oxide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Yttrium(III) Oxide and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Yttrium(III) Oxide.

This report presents a comprehensive overview, market shares, and growth opportunities of Yttrium(III) Oxide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Industrial Grade

High-Purity Grade

Ultra-High-Purity Grade

Segmentation by Production Method:

Calcined Yttrium(III) Oxide

Precipitated Yttrium(III) Oxide

Sol-Gel Yttrium(III) Oxide

Hydrothermal Yttrium(III) Oxide

Segmentation by Application:

Semiconductor

Optoelectronic

Advanced Ceramic

Fuel Cell

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Yttrium(III) Oxide market?

What factors are driving Yttrium(III) Oxide market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Yttrium(III) Oxide market opportunities vary by end market size?

How does Yttrium(III) Oxide break out by Type, by Application?

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