

Aluminum Oxide Market Report by Form Type (Nanoparticles, Powder, Pellets, Tablets, Sputtering Targets), Application (Aluminum Smelting, Abrasive, Aluminum Chemicals, Engineered Ceramics, Refractories), End User (Medical, Automotive, Industrial Manufacturing, Electronics, and Others), and Region 2024-2032

<https://marketpublishers.com/r/AC500F5EE27BEN.html>

Date: March 2024

Pages: 145

Price: US\$ 3,899.00 (Single User License)

ID: AC500F5EE27BEN

Abstracts

The global aluminum oxide market size reached US\$ 6.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 9.2 Billion by 2032, exhibiting a growth rate (CAGR) of 4.8% during 2024-2032.

Also known as alumina, aluminum oxide (Al_2O_3) is a white, odorless chemical compound commonly found in different forms, such as powder, pellets, tablets, pieces, nanoparticles and sputtering targets. It is widely used as an electric insulator, abrasive and a protective layer in industrial manufacturing processes to prevent devices from weathering. It also finds applications in chromatography and making ceramic materials around the world on account of its high thermal conductivity.

Aluminum Oxide Market Trends:

The threat to flora, fauna and human life is increasing across the globe on account of the perpetually rising environmental pollutants. As a result, there is a rise in the demand for Al_2O_3 to remove toxic pollutants effectively. This can also be accredited to its affordability, high surface area, adsorption ability, surface acidity and thermal stability. In addition, due to its bio-inertness and chemical properties, Al_2O_3 acts as a preferred material in bearings of hip replacements, bionic implants, prosthetic eye substitutes, tissue reinforcements, dental crowns, abutments, bridges, and other dental implants. It

is also utilized in lab equipment and tools, such as crucibles and furnaces, worldwide. This, coupled with the growing investments in the healthcare sector by governing agencies of numerous countries, is driving the market. Moreover, the high melting and boiling points and the excellent thermal resistive properties are augmenting the sales of this metal oxide to manufacture high-temperature furnace insulations and electrical insulators. Besides this, the expanding application of Al_2O_3 in the construction, container packaging, electrical engineering and smelting process is strengthening the growth of the market. Furthermore, key industry players are collaborating and forming alliances to focus on commercialization and large-scale production, which is projected to fuel the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global aluminum oxide market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on form type, application and end user.

Breakup by Form Type:

- Nanoparticles
- Powder
- Pellets
- Tablets
- Sputtering Targets

Breakup by Application:

- Aluminum Smelting
- Abrasive
- Aluminum Chemicals
- Engineered Ceramics
- Refractories

Breakup by End User:

- Medical
- Automotive
- Industrial Manufacturing
- Electronics

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Alcoa Corporation, Aluminum Corporation of China Limited, BASF SE, Cabot Corporation, Evonik Industries AG, Hangzhou Jinjiang Group Co. Ltd., Honeywell International Inc., J.M. Huber Corporation, Merck KGaA, United Company Rusal Plc, Sasol Limited, Sumitomo Chemical Co. Ltd. and W.R. Grace & Co.

Key Questions Answered in This Report

1. What was the size of the global aluminum oxide market in 2023?
2. What is the expected growth rate of the global aluminum oxide market during

2024-2032?

3. What are the key factors driving the global aluminum oxide market?
4. What has been the impact of COVID-19 on the global aluminum oxide market?
5. What is the breakup of the global aluminum oxide market based on the form type?
6. What is the breakup of the global aluminum oxide market based on the application?
7. What are the key regions in the global aluminum oxide market?
8. Who are the key players/companies in the global aluminum oxide market?

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