

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 Al₂O₃ 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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ALUMINUM OXIDE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY FORM TYPE

- 6.1 Nanoparticles
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Powder
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Pellets

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Tablets
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Sputtering Targets
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Aluminum Smelting
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Abrasive
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Aluminum Chemicals
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Engineered Ceramics
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Refractories
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY END USER

- 8.1 Medical
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Automotive
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Industrial Manufacturing
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Electronics

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 Others

8.5.1 Market Trends

8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

- 9.3.1.1 Market Trends
- 9.3.1.2 Market Forecast
- 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Alcoa Corporation

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Aluminum Corporation of China Limited

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.3 BASF SE

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 Cabot Corporation

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

- 14.3.4.3 Financials
- 14.3.4.4 SWOT Analysis
- 14.3.5 Evonik Industries AG
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 SWOT Analysis
- 14.3.6 Hangzhou Jinjiang Group Co. Ltd.
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
- 14.3.7 Honeywell International Inc.
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 J.M. Huber Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 SWOT Analysis
- 14.3.9 Merck KGaA
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 United Company Rusal Plc
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
- 14.3.11 Sasol Limited
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis
- 14.3.12 Sumitomo Chemical Co. Ltd.
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
 - 14.3.12.3 Financials
 - 14.3.12.4 SWOT Analysis
- 14.3.13 W.R. Grace & Co.
 - 14.3.13.1 Company Overview
 - 14.3.13.2 Product Portfolio

14.3.13.3 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Aluminum Oxide Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Aluminum Oxide Market Forecast: Breakup by Form Type (in Million US\$), 2024-2032

Table 3: Global: Aluminum Oxide Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Aluminum Oxide Market Forecast: Breakup by End User (in Million US\$), 2024-2032

Table 5: Global: Aluminum Oxide Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Aluminum Oxide Market: Competitive Structure

Table 7: Global: Aluminum Oxide Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Aluminum Oxide Market: Major Drivers and Challenges

Figure 2: Global: Aluminum Oxide Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Aluminum Oxide Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Aluminum Oxide Market: Breakup by Form Type (in %), 2023

Figure 5: Global: Aluminum Oxide Market: Breakup by Application (in %), 2023

Figure 6: Global: Aluminum Oxide Market: Breakup by End User (in %), 2023

Figure 7: Global: Aluminum Oxide Market: Breakup by Region (in %), 2023

Figure 8: Global: Aluminum Oxide (Nanoparticles) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Aluminum Oxide (Nanoparticles) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Aluminum Oxide (Powder) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Aluminum Oxide (Powder) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Aluminum Oxide (Pellets) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Aluminum Oxide (Pellets) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Aluminum Oxide (Tablets) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Aluminum Oxide (Tablets) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Aluminum Oxide (Sputtering Targets) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Aluminum Oxide (Sputtering Targets) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Aluminum Oxide (Aluminum Smelting) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Aluminum Oxide (Aluminum Smelting) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Aluminum Oxide (Abrasive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Aluminum Oxide (Abrasive) Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 22: Global: Aluminum Oxide (Aluminum Chemicals) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Aluminum Oxide (Aluminum Chemicals) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Aluminum Oxide (Engineered Ceramics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Aluminum Oxide (Engineered Ceramics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Aluminum Oxide (Refractories) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Aluminum Oxide (Refractories) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Aluminum Oxide (Medical) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Aluminum Oxide (Medical) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Aluminum Oxide (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Aluminum Oxide (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Aluminum Oxide (Industrial Manufacturing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Aluminum Oxide (Industrial Manufacturing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Aluminum Oxide (Electronics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Aluminum Oxide (Electronics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: Aluminum Oxide (Other End Users) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: Aluminum Oxide (Other End Users) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: North America: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: North America: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: United States: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: United States: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Canada: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Canada: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Asia-Pacific: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Asia-Pacific: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: China: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: China: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Japan: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Japan: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: India: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: India: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: South Korea: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: South Korea: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Australia: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Australia: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Indonesia: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Indonesia: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Others: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Others: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Europe: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Europe: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: Germany: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Germany: Aluminum Oxide Market Forecast: Sales Value (in Million US\$),

2024-2032

Figure 64: France: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: France: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: United Kingdom: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: United Kingdom: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Italy: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Italy: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Spain: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Spain: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Russia: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Russia: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Others: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Others: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Latin America: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Latin America: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 78: Brazil: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Brazil: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 80: Mexico: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 81: Mexico: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 82: Others: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 83: Others: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 84: Middle East and Africa: Aluminum Oxide Market: Sales Value (in Million US\$), 2018 & 2023

Figure 85: Middle East and Africa: Aluminum Oxide Market: Breakup by Country (in %), 2023

Figure 86: Middle East and Africa: Aluminum Oxide Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Global: Aluminum Oxide Industry: SWOT Analysis

Figure 88: Global: Aluminum Oxide Industry: Value Chain Analysis

Figure 89: Global: Aluminum Oxide Industry: Porter's Five Forces Analysis

I would like to order

Product name: 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

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

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AC500F5EE27BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970