

## High Purity Alumina Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-11-02 | 149 pages | IMARC Group

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## **Report description:**

The global high purity alumina market size reached US\$ 1.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 6.3 Billion by 2028, exhibiting a growth rate (CAGR) of 24.4% during 2022-2028.

High purity alumina (HPA), or aluminum oxide, refers to processed non-metallurgical alumina. It is usually manufactured through the hydrolysis of aluminum oxide, hydrochloric acid leaching, underwater spark discharge with aluminum and vapor-phase oxidation processes. It can be classified into 4N, 5N and 6N, depending upon the level of purity and exhibits a high melting point, corrosion resistance and thermal stability. As a result, HPA finds extensive applications in the manufacturing of artificial sapphire substrates, light-emitting diodes (LEDs), semiconductors, lithium-ion batteries, smart electronic devices, ceramics, photovoltaic cells and artificial gemstones.

Significant growth in the electronics industry represents one of the key factors creating a positive outlook for the market. HPA is used to fabricate semiconductors, which are further utilized in the assembly of personal computers, tablets, gaming consoles, televisions and servers. Furthermore, the increasing product demand for the manufacturing of LED lights is also contributing to the market growth. Due to rising environmental consciousness, there is a shift in the consumer preference from traditionally used incandescent bulbs towards energy-efficient LED variants. HPA is also used as a coating on lithium-ion (LI-ion) battery separators used in electronic vehicles (EVs) to optimize efficiency and minimize emissions into the environment. Additionally, various product innovations, such as the development of ready-to-use medical bio-ceramics for orthopedic and dental implants, are augmenting the market growth. Other factors, including the widespread utilization of HPA for the production of sapphire with minimal flaws in the crystal lattice, along with extensive research and development (R&D) activities, are anticipated to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global high purity alumina market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on purity

level, production method and application.

Breakup by Purity Level:

4N 5N

6N

Breakup by Production Method:

Hydrolysis of Aluminium Alkoxide Hydrochloric Acid Leaching Others

Breakup by Application:

LED Semiconductor Substrate Phosphor Sapphire Glass 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 report has also analysed the competitive landscape of the market with some of the key players being Alcoa Corporation, Altech Chemicals Limited, Baikowski SAS, Coorstek Inc. (Keystone Holdings LLC), Nippon Light Metal Holdings Company Ltd., Norsk Hydro ASA, RusAL, Sasol Limited, Sumitomo Chemical Co. Ltd and Zibo Honghe Chemical Co. Ltd.

Key Questions Answered in This Report:

How has the global high purity alumina market performed so far and how will it perform in the coming years? What has been the impact of COVID-19 on the global high purity alumina market? What are the key regional markets? What is the breakup of the market based on the purity level? What is the breakup of the market based on the production method? What is the breakup of the market based on the application? What are the various stages in the value chain of the industry? What are the key driving factors and challenges in the industry? What is the structure of the global high purity alumina market and who are the key players? What is the degree of competition in the industry?

### **Table of Contents:**

1 Preface 2 Scope and Methodology 2.10bjectives of the Study 2.2Stakeholders 2.3Data Sources 2.3.1Primary Sources 2.3.2Secondary Sources 2.4Market Estimation 2.4.1Bottom-Up Approach 2.4.2Top-Down Approach 2.5Forecasting Methodology 3 Executive Summary 4 Introduction 4.10verview 4.2Key Industry Trends 5 Global High Purity Alumina Market 5.1Market Overview 5.2Market Performance 5.3Impact of COVID-19 5.4Market Forecast 6 Market Breakup by Purity Level 6.14N 6.1.1 Market Trends 6.1.2 Market Forecast 6.25N 6.2.1 Market Trends 6.2.2 Market Forecast

6.36N 6.3.1 Market Trends 6.3.2 Market Forecast 7 Market Breakup by Production Method 7.1Hydrolysis of Aluminium Alkoxide 7.1.1 Market Trends 7.1.2 Market Forecast 7.2Hydrochloric Acid Leaching 7.2.1 Market Trends 7.2.2 Market Forecast 7.30thers 7.3.1 Market Trends 7.3.2 Market Forecast 8 Market Breakup by Application 8.1LED 8.1.1 Market Trends 8.1.2 Market Forecast 8.2Semiconductor Substrate 8.2.1 Market Trends 8.2.2 Market Forecast 8.3Phosphor 8.3.1 Market Trends 8.3.2 Market Forecast 8.4Sapphire Glass 8.4.1 Market Trends 8.4.2 Market Forecast 8.50thers 8.5.1 Market Trends 8.5.2 Market Forecast 9 Market Breakup by Region 9.1North 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 9.2Asia 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 9.3Europe 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 9.4Latin 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 9.5Middle East and Africa 9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast 10 SWOT Analysis 10.10verview 10.2Strengths 10.3Weaknesses 10.40pportunities 10.5Threats 11 Value Chain Analysis 12 Porters Five Forces Analysis 12.10verview 12.2Bargaining Power of Buyers 12.3Bargaining Power of Suppliers 12.4Degree of Competition 12.5Threat of New Entrants 12.6Threat of Substitutes 13 Price Analysis 14 Competitive Landscape 14.1Market Structure 14.2Key Players 14.3Profiles of Key Players 14.3.1Alcoa Corporation 14.3.1.1 Company Overview 14.3.1.2 Product Portfolio 14.3.1.3 Financials 14.3.1.4 SWOT Analysis 14.3.2Altech Chemicals Limited 14.3.2.1 Company Overview 14.3.2.2 Product Portfolio 14.3.2.3 Financials 14.3.3Baikowski SAS 14.3.3.1 Company Overview 14.3.3.2 Product Portfolio 14.3.3.3 Financials 14.3.4Coorstek Inc. (Keystone Holdings LLC) 14.3.4.1 Company Overview 14.3.4.2 Product Portfolio 14.3.5Nippon Light Metal Holdings Company Ltd. 14.3.5.1 Company Overview 14.3.5.2 Product Portfolio 14.3.5.3 Financials 14.3.5.4 SWOT Analysis 14.3.6Norsk Hydro ASA 14.3.6.1 Company Overview 14.3.6.2 Product Portfolio 14.3.6.3 Financials 14.3.6.4 SWOT Analysis 14.3.7RusAL

14.3.7.1 Company Overview
14.3.7.2 Product Portfolio
14.3.8Sasol Limited
14.3.8.1 Company Overview
14.3.8.2 Product Portfolio
14.3.8.2 Product Portfolio
14.3.8.4 SWOT Analysis
14.3.9Sumitomo Chemical Co. Ltd.
14.3.9.1 Company Overview
14.3.9.2 Product Portfolio
14.3.9.3 Financials
14.3.9.4 SWOT Analysis
14.3.10.2 Product Portfolio
14.3.10.2 Product Portfolio



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