

High Purity Alumina (HPA) Market Size, Trends, Share, Research Report, Regional and Industry Analysis, Forecast to 2027

High Purity Alumina (HPA) Market Size – USD 2.16 Billion in 2019, Growth - CAGR of 22.9%. High demand in LED segment, automobile and electronics sector.

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EINPresswire.com/ -- The Global [High Purity Alumina \(HPA\) Market](#) is forecast to reach USD 11.32 billion by 2027. The

major factors contributing to this growth is the increase in its usage in applications like LED lighting, semiconductors, lithium-ion batteries, photovoltaic cells, phosphor, optical lenses, biomedical device, and others. The increase in the production of electric vehicles is also driving the industry.

HPA is used for producing sapphire ingots that are used in products like LED lights or semiconductors. Governments around the world are trying to promote energy-efficient lighting systems, and this is providing a huge boost to the LED segment. The increasing adoption of LED lights is having a positive impact on the market under study. The growing popularity of electric vehicles is forcing automobile manufacturers to focus on the manufacturing of electric as well as hybrid vehicles. Electric Vehicles have lithium-ion batteries that contain high purity alumina, and thus, the growth of the electric vehicle segment is predicted to drive the industry's growth further. HPA also finds high usage in the semiconductor industry as it is used in the fabrication of semiconductor devices.

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The production of HPA involves a lot of costs, which is somewhat restraining the industry's growth. For this reason, major players of the industry are trying to come up with innovative solutions in order to make the production process as cost-effective as possible.

Top Key players in the market include Alcoa Corporation, Altech Chemicals Ltd, Baikowski, Nippon Light Metal Holdings Company Ltd, Norsk Hydro ASA, Polar Sapphire Ltd, Rio Tinto,



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RUSAL, Sasol and Sumitomo Chemicals Co. Ltd.

The chemicals and materials industry has been steadily growing as this is the industry that can be said to be shaping every other industry. The chemical and materials industry is growing due to the introduction of new products and technologies, increasing environmental consciousness, and changing customer preferences. In recent years, economic growth and the growth of ancillary industries in emerging economies have been critical to the chemical and materials industry's growth.

A new trend has emerged: the production of bio-based and renewable chemicals. These products are likely to solve chemical industry-related environmental concerns. Environmental sustainability, social responsibility, and economic development are the requirements that the industry must meet in order to overcome long-term growth challenges.

The report is written with the aid of industry analysts, market segmentation, and data collection in order to assist readers in making profitable business decisions. The report includes a comprehensive database of technical and product advances. It also provides information on growth rates and market value, as well as a thorough examination of niche market segments. The report provides strategic advice to newcomers and existing businesses about how to make profitable and well-informed business decisions.

Further key findings from the report suggest

The 5N type of HPA has a purity level of 99.99%. It possesses properties like scratch resistance, chemical stability and strength, which makes it suitable for the production of sapphire. Polar Sapphire is a major manufacturer of this variant of HPA.

Over the years, the semiconductors application segment is continuing to have the second largest market share. It is forecasted to witness a steady growth during 2020-27. Plasma display panels consists of phosphor coatings which is also driving the segment's growth.

In the HCL Leaching process, hydrochloric acid is used instead of caustic soda in order to extract alumina from clay. The product is extracted by acid-leaching using HCL at high temperature and then applying pressure. This process does not find much use in manufacturing processes of different companies but have very good future prospects.

North America is expected to witness a considerable amount of growth during the forecast period. Increasing demand of LED lighting systems and the adoption of electric vehicles to a large extent is boosting the industry's growth in this region. In 2016, Orbite Technologies announced the construction of a new HPA plant in Canada which would cost around USD 122 million.

There have been a number of new product launches in the market amongst which 4N HPA Powder of Sapphire grade by Altech Chemicals Limited and Milled Alpha Powder, Spray Dried Alpha Powder, Compressed Pucks, High Purity Alumina Beads by Polar Sapphire Limited require special mention.

There have been a number of M&A in the industry in 2019 like PARTNER Capital Group acquiring

Aviles and La Coruna plants from Alcoa Corporation, Altech Chemicals Ltd acquiring 29% stakes of Youbisheng Green Paper AG, Baikowski acquiring Mathym SAS and Norsk Hydro ASA acquiring Technal Middle East.

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For the purpose of this report, Reports and Data have segmented into the global High Purity Alumina market on the basis of type, application, manufacturing process and region:

Type Outlook (Revenue, USD Billion; 2020-2027) (Kilo Tons)

4N

5N

6N

Application Outlook (Revenue, USD Billion; 2020-2027) (Kilo Tons)

LED Bulbs

Semiconductors

Lithium-Ion Batteries

Optical Lenses

Bio Medical Devices

Others

Manufacturing Process Outlook (Revenue, USD Billion; 2020-2027) (Kilo Tons)

Hydrolysis

HCL Leaching

Thermal Decomposition

Vapor-Phase Oxidation

Others

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The global High Purity Alumina (HPA) market is segmented into:

North America (U.S.A., Canada, Mexico)

Europe (Italy, U.K., Germany, France, Rest of Europe)

Asia Pacific (China, India, Japan, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Peru, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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