

Specialty Alumina Global Market Report 2025 | Business Growth, Development Factors, Current and Future Trends till 2029

The Business Research Company's Iron and Steel Casting Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- How Much Is The Specialty Alumina Market Worth?

In recent times, the specialty alumina market has seen consistent growth. The market size is anticipated to expand from \$2.9 billion in 2024 to \$2.96 billion in 2025 with a compound annual growth rate (CAGR) of 2.2%. This growth during the historical period can be credited to the rise in demand in the refractories sector, the burgeoning electronics and semiconductors industry,



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increased use in ceramics manufacturing, advancements in the creation of catalysts, and progress in surface treatment applications.

The market size for specialty alumina is forecasted to experience a consistent growth over the next couple of years, ballooning to \$3.46 billion by 2029 with a compound annual growth rate (CAGR) of 3.9%. The expansion through the forecast period is ascribed to factors such as increased adoption of electric vehicles, growing need for advanced ceramics, development of the renewable energy industry,

higher usage in bio-medical fields, infrastructure improvement projects, and a surge in demand for sapphire substrates. Key trends during this forecast period will be a concentration on value-added products, advancements in product innovation, stringent quality control measures, and substantial investments in research and development.

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What Are The Factors [Driving The Specialty Alumina Market?](#)

The specialty alumina market is set to increment due to the expansion of the aerospace and defense industry. This industry, which involves the creation, production, and upkeep of aerospace systems such as spacecraft, aircraft, missiles, rockets, and related parts, as well as defense equipment and systems, utilizes specialty alumina in the manufacture of various components. The properties of high strength, lightweight and superior heat resistance properties make it an ideal material for creating turbine blades, engine parts, structural elements, seals, and bearings. By way of example, the Airspace Industries Association (AIA), a trade organization in the US, revealed that combined sales in 2022 for aerospace and defense (A&D) were \$952 billion, a growth of 6.7 percent from 2021. Additionally, exports in this sector surged by 4.4 percent, totaling \$104.8 billion. With this trend, the expanding aerospace and defense sector is poised to propel the specialty alumina market further.

Who Are The Major Players In The Specialty Alumina Market?

Major players in the Specialty Alumina include:

- Rio Tinto Group
- Aluminum Corporation of China Limited
- Hindalco Industries Limited
- Norsk Hydro
- Sumitomo Chemical Co Ltd.
- Hongqiao
- Rusal
- Alcoa Corporation
- Showa Denko
- South 32

What Are Some Emerging [Trends In The Specialty Alumina Market?](#)

In the specialty alumina market, one prominent trend seems to be innovation in product development. Dominant companies in this market are focusing their efforts on new product development such as HYCal, to maintain their leading roles. For instance, in March 2023, an engineering firm based in India, Carborundum Universal Limited, debuted CUMI Monk, a result of an advanced fusion technique utilizing specialty alumina and unique additives. CUMI Monk Monocrystalline Alumina, a single crystal composed of alpha-phase alumina with minimal grain boundaries, creates stronger cutting edges and rougher surfaces, thus making for improved bonding and sharper cutting actions than traditional alumina grains.

Which Segment Accounted For The Largest [Specialty Alumina Market Share?](#)

The specialty alumina market covered in this report is segmented –

- 1) By Type: Standard Calcined Alumina, Tabular Alumina, White Fused Alumina, Medium Soda Calcined Alumina, Low Soda Alumina, Other Types
- 2) By Application: Refractory Materials, Ceramics, Abrasives And Polishing, Catalyst, Other

Applications

3) By End-User Industry: Automotive, Aerospace, Chemicals, Industrial

Subsegments:

- 1) By Standard Calcined Alumina: Alpha Alumina, Beta Alumina
- 2) By Tabular Alumina: High Purity Tabular, Alumina, Low Purity Tabular Alumina
- 3) By White Fused Alumina: White Fused Alumina For Abrasives, White Fused Alumina For Refractories
- 4) By Medium Soda Calcined Alumina: Calcined Alumina With Medium Soda Content
- 5) By Low Soda Alumina: Low Soda Calcined Alumina For Refractories, Low Soda Calcined Alumina For Ceramics
- 6) By Other Types: Reactive Alumina, Coated Alumina, Specialty Aluminas For Specific Applications

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What Are The Regional Trends In The Specialty Alumina Market?

In 2024, Asia-Pacific held the most significant market share in the specialty alumina industry and is forecasted to grow. The regions analyzed in the specialty alumina market report encompass Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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