

Fumed Alumina Market Set to Reach USD 4,568 Million by 2035, Driven by 8.1% CAGR

MD, UNITED STATES, May 6, 2025 /EINPresswire.com/ -- The global <u>fumed alumina market</u> is expected to reach USD 4,568 million by 2035, up from USD 1,939 million in 2024. During the forecast period (2025 to 2035), the industry is projected to grow at a CAGR of 8.1%..

The fumed alumina is experiencing a transformative change in light of the fact that industries are accounting for precision-engineered nanomaterials



that offer amplified product performance and sustainability. Through advances in particle surface modification and dispersion technology, fumed alumina is becoming an integral ingredient replacing other additives used in coatings, adhesives and electronics manufacturing – promoting enhanced scratch resistance, thermal stability and anti-settling characteristics. high end automotive finishes, semiconductors processing and advanced battery systems where the nanostructured fumed alumina enhances performance without requirement for increased weight or loss of durability.

The use of fumed alumina has increased in energy efficient applications due to increasing regulations supporting environmentally-friendly, high-strength formulations. Manufacturers have been concentrating on the development of high-purity, hydrophobic and doped types in response to niche applications like UV-cured coatings and optical films as a result.

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Key Takeaways from Market Study

The fumed alumina market is projected to grow at 1% CAGR and reach USD 4,568.0 million by 2035

The market created an absolute \$ opportunity of USD 2,543 million between 2025 to 2035

North America is a prominent region that is estimated to hold a market share of 8% in 2035 Predominating market players include are Evonik Industries, Cabot Corporation, Guangzhou GBS High-Industry, Hubei Huifu Nanomaterial Co., Ltd. (HIFULL Corporation), Chakad Group, CE Chemicals, Akasel, CoorsTek, Inc., United Company RUSAL, Nishimura Advanced Ceramics Co., Ltd.

North America is expected to create an absolute \$ opportunity of USD 698.0 million "Growing demand for advanced coatings, enhanced battery technologies, and high-performance composites, along with stricter quality standards in electronics and automotive manufacturing, will drive the fumed alumina market." says a Fact.MR analyst.

Market Development

The fumed alumina market is witnessing interesting developments from key industry players in the form of strategic partnerships with specialty chemical and advanced material technology providers. Among the key advancements are the continued introductions of high-purity, surfacetreated fumed alumina for energy storage and semiconductor applications. Producers are adding versatile grades for niche applications such as paints, adhesives, and electronics to their portfolios. Much emphasis is also given to synthesising hydrophobic and doped fumed alumina grades to cater to changing specification requirements. Local markets are being harmonised to meet regional sustainability expectations while keeping in silent with international quality and standard values of the product.

For example, in April 2025, Wacker Biotech, a subsidiary of Wacker Chemie AG, announced a strategic collaboration with RNAV8 Bio to advance mRNA therapeutics. The partnership focuses on optimizing untranslated regions (UTRs) to enhance mRNA stability and efficacy, strengthening Wacker's position as a premium provider of comprehensive mRNA development and manufacturing services.

Competitive Analysis

Key players in the fumed alumina industry include Evonik Industries, Cabot Corporation, Guangzhou GBS High-Industry, Hubei Huifu Nanomaterial Co., Ltd. (HIFULL Corporation), Chakad Group, CE Chemicals, Akasel, CoorsTek, Inc., United Company RUSAL, Nishimura Advanced Ceramics Co., Ltd.

Recent Development

In March 2023, Evonik Industries announced a mid-double-digit million Euro investment to expand its fumed aluminum oxide production plant in Yokkaichi, Japan. This facility, Evonik's first alumina plant in Asia, aims to produce specialty solutions for lithium-ion battery technologies used in electric vehicles. Construction began in summer 2023, with operations slated for 2025.

In July 2023, Cabot Corporation reported significant growth in its battery materials segment, with

FY22 revenue up 74% to \$ 132 million. The company emphasized its broad product portfolio, including fumed alumina, to meet the increasing demand for electric vehicle batteries. Cabot's global manufacturing network supports local supply chains, catering to regional supply security needs.

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More Valuable Insights on Offer

Fact.MR, in its new offering, presents an unbiased analysis of the the Fumed alumina market, presenting historical data for 2020 to 2024 and forecast statistics for 2025 to 2035.

The study reveals essential insights on the basis of the Type (Hydrophilic Fumed Alumina, Hydrophobic Fumed Alumina), Purity Level (High-Purity (≥99.9% Al□O□), Standard-Purity (98–99.8% Al□O□), Low-Purity (<98% Al□O□)), Application (Coatings and Paints, Adhesives and Sealants, Composites and Plastics, Personal Care and Cosmetics, Electronics and Semiconductors, Catalysts and Catalyst Supports, Others), Distribution Channel (Direct Sales, Distributors and Agents, Online Sales), Across Major Regions of the World (North America, Latin America, Western Europe, Eastern Europe, East Asia, South Asia & Pacific, and Middle East & Africa).

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Global demand for <u>composites testing reached a market</u> value of US\$ 1.6 Billion in 2021, and is forecast to be valued at US\$ 1.8 Billion in 2022, representing a Y-o-Y increase worth 12.5%. During the 2022 to 2032 assessment period, the industry is poised to register a value CAGR worth 5.2% to reach US\$ 3 Billion.

The global <u>acetone derivatives market</u> stands at US\$ 11.2 billion in 2022 and is forecasted to progress steadily at a CAGR of 5.8% to reach a market valuation of US\$ 19.9 billion by the end of 2032.

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