

Bio-butadiene Market Size, Share & Trends Analysis Report By Grade (Industrial Grade, Laboratory Grade), By Application (Styrene Butadiene Rubber, Styrene Butadiene Latex), By End Use, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Bio-butadiene Market Growth & Trends

The global bio-butadiene market size is anticipated to reach USD 21,164 thousand by 2030, expanding at a CAGR of 9.75% from 2024 to 2030, according to a new report by Grand View Research, Inc. The growth is majorly attributed to inclined consumer preferences for eco-friendly products pushing companies to adopt bio-based alternatives. Bio-butadiene offers a renewable and lower carbon footprint option compared to its petroleum-derived counterpart. This shift toward sustainability presents a major opportunity for bio-butadiene in industries like tire manufacturing, plastics production, and adhesives, paving the way for a more environmentally responsible future.

High crude oil prices and low natural gas prices in the U.S. have prompted petrochemical companies to transition from oil-based naphtha cracking to ethane cracking derived from natural gas. This shift has led to a decrease in butadiene supply from traditional sources.

Moreover, there is growing interest in developing on-purpose butadiene production methods using both conventional and renewable feedstocks. Concurrently, there is significant enthusiasm for green tires, which utilize synthetic rubber made from bio-

based monomers such as bio-isoprene and bio-butadiene. This sector is particularly active, with companies like Genomatica and Cobalt Technologies planning commercialization efforts within the next five years.

Companies are increasingly working on research and development of the product. For instance, the BioButterfly project by Michelin, IFPEN, and Axens utilizes bioethanol from sugar beet for bio-butadiene production. This project demonstrates the feasibility of the technology on an industrial scale. Also, companies like Braskem are exploring bio-based ABS production using bio-butadiene derived from sugarcane.

Companies such as Synthos manufactures product by utilizing renewable ethanol feedstock to produce raw butadiene through a two-step catalytic process. Subsequently, the raw butadiene undergoes further refinement to yield a high-purity butadiene product.

This price difference can make bio-butadiene a less attractive option for manufacturers, especially those focused on short-term profitability. As a result, wider adoption in the market is hindered until production costs become more competitive with traditional butadiene.

Bio-butadiene Market Report Highlights

Based on grade, the industrial segment was valued at USD 87.3 thousand in 2023 and is projected to reach USD 17,902.0 thousand by 2030. Industrial grade of the product finds applications in industries such as plastics, rubber, and chemical synthesis

Based on application, styrene-butadiene rubber (SBR) market was valued at USD 32.4 thousand in 2023 and is projected to reach USD 6,907.2 thousand by 2030. It is a versatile synthetic rubber derived from the copolymerization of styrene and butadiene monomers

Based on end use, the automotive and transportation segment accounted for the largest revenue share of 33.35% of the market in 2023 owing to the increasing consumption of the product in manufacturing tires and other rubber-based material in the automotive industry

Europe is a prominent consumer of Bio-Butadiene in the world with a revenue share of 61.8% in 2023 owing to strong environmental

regulations, like the European Union's Green Deal, push for decreased reliance on fossil fuels and promote bio-based alternatives

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