

Battery Separators Market by Battery Type (Lead Acid and Li-ion), Material (Polyethylene and Polypropylene), Technology (Dry and Wet), End-Use (Automotive, Consumer Electronics, Industrial), and Region - Global Forecast to 2028

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Abstracts

The battery separators market is projected to grow from USD 6.3 billion in 2023 to USD 13.0 billion by 2028, at a CAGR of 15.7% during the forecast period. The growing demand for batteries in energy storage devices, coupled with increased research and development in battery separators, is one of the key driver that is boosting the battery separators market.

“Polypropylene segment, by material, is estimated to account for the second largest share during the forecast period”

The polypropylene segment is projected to secure the second-largest share in the forecast period, primarily fueled by its extensive application in the automotive and marine industries. Polypropylene battery separators play a crucial role in electric vehicle (EV) batteries. The segment's significance is further underscored by the increasing demand for polypropylene in diverse sectors, including fashion apparel and healthcare devices. This broader utilization is expected to contribute to the sustained growth of the polypropylene segment in the battery separators market.

“By battery type, lithium-ion segment is accounted for the second largest share during the forecast period”

lithium-ion batteries are well-known for powering electric and hybrid vehicles. They're also widely used in consumer electronics and the automotive industry. Notably, they

features an efficient manufacturing method, contributing to reduced CO₂ emissions. The anticipated surge in demand for lithium-ion batteries is fueled by their high capacity and lightweight characteristics. Their lightweight design and high energy density make them ideal for portable devices, providing a longer runtime and faster charging capabilities. Therefore, the lightweight and high capacity characteristics of lithium-ion batteries are expected to drive the battery separators market.

“Consumer electronics segment, by end-use, is estimated to account for the second largest share during the forecast period”

Lithium-ion batteries are commonly used in electric and hybrid vehicles, as well as in consumer electronics such as portable PCs, cell phones, and tablets, and the automotive industry. These batteries are favored for their efficient production process, reducing CO₂ emissions. These batteries offer high energy density, less time required to recharge, and are eco-friendly, which further enhances their demand. Thus, the growing use of lithium-ion batteries in various consumer electronics is expected to propel the demand for battery separators market.

“Europe region is estimated to account for the second largest share during the forecast period”

Europe is expected to be the second-largest market for battery separators. Germany is among the key player in the region, which is driven by automobile sector, with a rise in the demand for electric vehicles. As a major contributor to the automotive industry, Germany emerges as a favorable market for various batteries, particularly those using lithium-ion technology. Additionally, the ongoing transition to renewable energy sources in the country is expected to boost the market further, contributing to the overall growth of the European battery separators market.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 65%, Tier 2 – 20%, and Tier 3 – 15%

By Designation: C-level– 25%, Director Level– 30%, and Others – 45%

By Region: North America – 20%, Europe – 15%, Asia Pacific – 55%, Middle East & Africa – 3%, South America – 7%

Asahi Kasei Corporation (Japan), ENTEK (US), Shanghai Energy New Materials Technology Co., Ltd. (China), SK ie technology (South Korea), Toray Industries, Inc. (Japan), and UBE Corporation (Japan) are some of the major players operating in the battery separators market. These players have adopted strategies such as acquisitions, expansions, and partnerships, and expansions in order to increase their market share business revenue.

Research Coverage:

The report defines, segments, and projects the battery separators market based on material, battery type, end-use, and region. It provides detailed information regarding the major factors influencing the growth of the market, such as drivers, restraints, opportunities, and challenges. It strategically profiles, battery separators manufacturers and comprehensively analyses their market shares and core competencies as well as tracks and analyzes competitive developments, such as expansions, joint ventures, agreements, and acquisitions, undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them the closest approximations of revenue numbers of the battery separators market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses, and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (increasing adoption of lithium-ion batteries in renewable energy sector, growing adoption of EVs and plug-in vehicles, surge in demand for consumer electronics), restraints (proper storage and transportation of batteries, lack of government support and infrastructure in emerging economies), opportunities (battery usage in energy storage devices, growing r&d for battery separators), and challenges (maintaining uniformity in quality of materials) influencing the growth of the battery separators market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities in the battery separators market.

Market Development: Comprehensive information about lucrative markets – the report analyses the battery separators market across varied regions.

Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the battery separators market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players such as Asahi Kasei Corporation (Japan), Shanghai Energy New Materials Technology Co., Ltd. (China), SK ie technology (South Korea), Toray Industries, Inc. (Japan), Sinoma Science & Technology Co., Ltd. (China), Ahlstrom (Finland), Bernard Dumas (France), Cangzhou Mingzhu Plastic Co., Ltd. (China), Delfortgroup AG (Austria), Eaton (Europe), ENTEK (US), Freudenberg (Germany), Hebei Gellec New Energy Science & Technology Co., Ltd. (China), Mitsubishi Paper Mills Limited (Japan), Hollingsworth & Vose (US), Nanografi Nano Technology (Turkey), Solvay (Belgium), Sumitomo Chemical Co., Ltd. (Japan), Teijin Limited (Japan), UBE Corporation (Japan), W-Scope Corporation (Japan), and others in the battery separators market.

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