

Lithium-Ion Battery Separator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global lithium-ion battery separator market size reached US\$ 3.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.7 Billion by 2028, exhibiting a growth rate (CAGR) of 14.6% during 2023-2028.

A lithium-ion battery separator is a thin, porous membrane that physically separates the anode and cathode to prevent electrical short circuits. The separator is moisturized by an electrolyte that often acts as a catalyst for the movement of ions inside the battery. It primarily focuses on providing a barrier between two electrodes while facilitating ion transport in the cell. Lithium-Ion battery separator is manufactured using non-woven fibers, polymer films, and ceramic materials that have excellent mechanical properties, good chemical stability, and are cost-effective. As a result, it finds extensive applications across the automotive, industrial, and consumer electronic industries.

Lithium-Ion Battery Separator Market Trends:

The increasing adoption of electric vehicles (EVs) across the globe is creating a positive outlook for the market. Lithium-ion battery separators are essential to safety as in the event of a runaway reaction, their pores are designed to melt closed from the heat generated and collapse the battery before it ignites. Additionally, the implementation of various government initiatives focusing on minimizing carbon emissions is acting as another growth-inducing factor. Apart from this, the introduction of lithium-ion batteries layered with polyolefins and ceramic oxides that are stable, safe, and aid in reducing shrinkage and particle penetration are providing an impetus to the market growth.

Furthermore, the increasing product demand due to its various advantages, such as better resistance, strength, chemical permeability, and safety toward electronic short circuits, is positively influencing the market growth. Moreover, the growing demand for smartphones, tablets, and other consumer electronic products is providing a considerable boost to the market growth. Besides this, significant advancements and improvements in separator design to meet the high stability and lifespan performance standards, extensive research and development (R&D) activities, and significant growth in the automotive industry, are supporting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global lithium-ion battery separator market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on material, thickness and end user.

Breakup by Material:

Polypropylene (PP)

Polyethylene (PE)

Nylon

Others

Breakup by Thickness:

16µm

20µm

25µm

Breakup by End User:

Industrial

Consumer Electronics

Automotive

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Asahi Kasei Corporation, Beijing SOJO Electric Co. Ltd., Cangzhou Mingzhu Plastic Co. Ltd., ENTEK International LLC, Mitsubishi Paper Mills Limited (Oji Paper Co. Ltd.), Shanghai Energy New Materials Technology Co. Ltd., SK Innovation Co. Ltd., Sumitomo Chemical Co. Ltd., Teijin Limited, Toray Industries Inc., UBE Corporation and W-SCOPE Corporation.

Key Questions Answered in This Report

1. What was the size of the global lithium-ion battery separator market in 2022?
2. What is the expected growth rate of the global lithium-ion battery separator market during 2023-2028?
3. What are the key factors driving the global lithium-ion battery separator market?
4. What has been the impact of COVID-19 on the global lithium-ion battery separator

market?

5. What is the breakup of the global lithium-ion battery separator market based on the end user?

6. What are the key regions in the global lithium-ion battery separator market?

7. Who are the key players/companies in the global lithium-ion battery separator market?

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