

Lead Acid Battery Separator Market to Reach \$4.50Bn by 2032,Driven by Automotive and Energy Storage | DataM Intelligence

The Lead Acid Battery Separator Market is set to reach \$4.50B by 2032, fueled by energy storage and EV growth.

NEW YORK, NY, UNITED STATES, June 2, 2025 /EINPresswire.com/ -- Market Overview :

The <u>Lead Acid Battery Separator</u> <u>Market</u> is on a notable growth trajectory, reaching a market size of US\$ 2.28 billion in 2024, and is projected to climb to US\$ 4.50 billion by 2032, growing at a CAGR of 8.88% from 2025 to 2032. As energy storage and vehicle electrification become



central to global decarbonization strategies, lead-acid batteries remain relevant especially in start-stop vehicle systems, industrial applications, and backup power systems. At the heart of these batteries are separators that ensure safe and efficient operation by preventing internal short circuits and enhancing ionic conductivity.

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Rising demand from automotive and renewable energy sectors is breathing new life into the lead acid battery separator market, pushing innovations in materials and manufacturing efficiency." DataM Intelligence Market Drivers

Rising Demand from Automotive Industry: Start-stop systems in fuel-efficient vehicles are driving demand for enhanced lead-acid battery separators.

Growth in Renewable Energy Storage: Increased installation of solar and wind energy systems requires reliable, low-cost energy storage solutions.

Recycling and Sustainability Push: Lead-acid batteries are

among the most recycled products globally, promoting the use of eco-friendly separator

materials.

Advancements in Separator Technologies: Innovations in absorbent glass mat (AGM) and polyethylene (PE) separators are improving battery life and efficiency.

Industrial and Telecom Sector Expansion: Backup power solutions for data centers, telecom towers, and industrial setups boost market growth.

Lower Cost Compared to Lithium-ion: Lead-acid batteries offer a cost-effective solution in regions where lithium-ion alternatives remain expensive.

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Market Key Players:

Several global players dominate the market, each investing in R&D, manufacturing capacity, and strategic collaborations to gain a competitive edge. Key companies include:

Toray Battery Separator Film Korea Limited

Sumitomo Chemical Co., Ltd.

Asahi Kasei Corporation

SK Innovation Co., Ltd.

Freudenberg Performance Materials

ENTEK International, LLC

W-Scope Corporation

UBE Corporation

Bernard Dumas

Dow, Inc.

These companies are focusing on improving thermal stability, pore structure, and chemical resistance in separator materials to meet the performance demands of modern applications.

Market Segmentation

By Material Type:

Polyethylene (PE) Absorbent Glass Mat (AGM) PVC and Others

By Battery Type:

Flooded Lead-Acid Batteries Valve-Regulated Lead-Acid (VRLA) Batteries

By End User:

Automotive Industrial Telecom UPS & Data Centers Utilities

The AGM separator segment is projected to witness significant growth due to its compatibility with maintenance-free and sealed lead-acid batteries used in modern vehicles and renewable energy systems.

Latest News of USA

Dow, Inc. expanded its specialty materials division to meet growing separator demand from automotive OEMs and battery manufacturers.

ENTEK International secured federal funding to enhance its Oregon facility, boosting production of high-capacity PE separators.

The U.S. Department of Energy launched new incentives for domestic battery component manufacturing, including separator technologies.

Telecom operators in the U.S. are upgrading off-grid systems with advanced VRLA batteries supported by next-gen separators.

Latest News of Japan

Asahi Kasei launched a new separator material with enhanced thermal resistance targeting hightemperature industrial batteries. Sumitomo Chemical partnered with a Japanese EV manufacturer to co-develop high-efficiency separator solutions.

UBE Corporation opened a new R&D facility in Tokyo to innovate next-gen materials for lead-acid battery separators.

Japanese renewable projects in rural regions have led to increased procurement of VRLA batteries with AGM separators.

Key Developments :

ENTEK signed a long-term supply deal with a major U.S. auto battery manufacturer.

SK Innovation expanded separator manufacturing capacity in Southeast Asia.

Bernard Dumas introduced a flame-retardant AGM separator line.

Dow launched a biodegradable PE separator prototype.

Freudenberg began pilot production of ultra-thin, high-porosity separators.

W-Scope developed a dual-layer separator for improved durability in deep-cycle batteries.

Conclusion

The Lead Acid Battery Separator Market is undergoing a quiet but powerful transformation, bolstered by advancements in material science and rising demand from automotive, industrial, and renewable energy sectors. As manufacturers pivot to more efficient and sustainable solutions, separator technologies are evolving to support a longer battery lifecycle and enhanced safety. With strong momentum from both mature and emerging economies, the market is wellpositioned for continued growth through 2032, maintaining its critical role in the global energy storage landscape.

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Lithium-Ion Battery Separator Market outlook (2024-2031)

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