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Advanced Materials in Electric, Fuel Cell and Hybrid Automotive Batteries

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Abstracts

Summary

The Summary Table and Summary Figure break down the market into two major segments: advanced materials and other materials. There are many types of batteries and fuel cells available in the market. However, today most electric vehicle batteries have one of the below four systems -

Lead-acid battery.

Nickel metal hydride battery.

Lithium-ion (including lithium polymer) battery.

Proton exchange membrane (PEM) fuel cells (PEMFCs).

Materials used in automotive lithium-ion battery and PEMFCs will have very strong growth in the next five years. They are considered as advanced materials in this report. On the other hand, materials used in automotive lead-acid batteries and nickel metal hydride batteries will have slow growth in the next five years. They are included in the segment “other materials.”

Reasons for Doing This Study

The battery and fuel cell industries are experiencing fast expansion. Battery and fuel cell demand have revitalized a number of raw material markets, and many material

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suppliers are counting on new battery and fuel cell markets to drive growth.

This study takes an approach to these opportunities by summarizing markets for individual battery and fuel cell types and components and then profiling the markets for the materials used in the automotive markets. An extensive set of company profiles provides competitive intelligence for existing battery and fuel cell material providers and also describes sources for these battery and fuel cell makers.

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ASHBURTON VENTURES INC.
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ELECTROCHEM INC.
ENGINEERED FIBERS TECHNOLOGY LLC (FIBERS TECHNOLOGY)
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FERRO CORP.
FMC CORP.
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HONJO CHEMICAL CORP.
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NIPPON SHOKUBAI CO. LTD.
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PHILLIPS 66
PORVAIR FUEL CELL TECHNOLOGY
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READE ADVANCED MATERIALS
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SGL GROUP - THE CARBON COMPANY
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