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Carbon Black in Lead-Acid Battery Market by Battery Type (Flooded Lead-Acid Battery and Valve Regulated Lead-Acid (VRLA) Battery) and Grade (Specialty and Conductive): Global Opportunity Analysis and Industry Forecast, 2020-2027

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Abstracts

The global carbon black in lead-acid battery market was valued at $417.1 million in 2019, and is projected to reach $591.4 million by 2027, growing at a CAGR of 4.6% from 2020 to 2027.

Carbon black is widely used in the lead-acid batteries consumed in automotive, e-bike, energy storage, stationary, and industrial applications. It possesses unique properties such as high surface area, high conductivity, and high hydrophobicity that enable higher dynamic charge acceptance (DCA), increased cycle life at partial state-of-charge conditions, good dispersibility and ease of use in paste preparation, improved manufacturing and battery uniformity.

Lead-acid batteries are the most popular and large-capacity rechargeable batteries. They are very inexpensive on a cost-per-watt-base, which makes them cost-effective energy sources for automobiles, electrical vehicles, forklifts, marine, and uninterruptible power supply (UPS) systems. These batteries are built with numerous individual cells containing a layer of lead alloy plates. Typically lead-acid battery is composed of 35% of sulphuric acid and 65% water. Apart from this, other additives such as carbon black are also used in the battery to provide additional strength. Carbon black with a selected combination of properties such as high surface area, high conductivity, and high hydrophobicity is used in lead-acid batteries to provide improved charge acceptance and cyclability as well as reduced hydrogen evolution.

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As lead-acid battery is the first commercial use battery, the consumer base for these batteries is very wide across the globe. Therefore, the demand for these batteries is also very high in the market. Globally, many initiatives are being taking place to reduce transport emissions. In addition, communication technologies have grown significantly due to technological advancements. Lead-acid batteries have emerged as a suitable source of energy in both cases to power commutation devices as well as transportation vehicles. As a result, the global lead-acid battery market is growing at a stable pace across the globe. Since the lead-acid battery is the lowest-cost energy source, factors such as growth in automotive sales, rise in demand for UPS systems, and surge in the marine trade are expected to drive the growth of the market in the upcoming years.

On the other hand, with change in the momentum of technology, new battery sources are emerging, where lithium-ion battery is considered to be a suitable alternative to a lead-acid battery. Therefore, the demand for lead-acid battery is expected to be hampered; thereby, restraining the global market growth.

The global carbon black in lead-acid battery market is segmented on the basis of battery type, grade, and region. By the battery type, it is segmented into flooded lead-acid battery and valve regulated lead-acid (VRLA) battery. By grade, it is divided into specialty and conductive. Region wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major player studied and profiled in the global carbon black in lead-acid battery market are Imerys, Orion Engineered Carbons S.A., Cabot Corporation, SGL Carbon SE, Aditya Birla Group, Denka Company Limited, Superior Graphite, Shandong Jinkeli Power Sources Technology Co., Ltd, Continental Carbon Company, and Israzion Ltd.

COVID-19 analysis:

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Automotive industry accounts for 60.0% share in terms of consumption of lead-acid battery globally. The automotive industry has been affected badly amid the lockdown imposed due to the COVID-19 outbreak and has recorded decline in production of vehicles (passenger & commercial) by 20.0% in 2020. Automotive manufacturers have halted their production activities due to disrupted supply chains of automotive components and decline in demand for passenger vehicles across the globe. The decline in production of passenger and commercial vehicles and downfall in numbers of newly registered vehicles are likely to decrease the demand and production for lead-acid battery which eventually will decline the demand of carbon black additive from battery manufacturers during the forecast period.

UPS system manufacturing industry accounts for 21.0% share in terms of

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consumption of lead-acid battery globally. The COVID-19 pandemic has posed business continuity challenges among various verticals, including construction and real estate, IT, healthcare, and manufacturing, owing to global lockdowns. It has impacted supply chains such as import and export control as per regional government policy and future influence on the industries. It has impacted the demand of UPS system in a negative way. The demand for UPS systems from enterprises is expected to be negative throughout 2020, particularly in retail, energy, transportation, IT, and government sectors. Due to this the demand for lead-

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acid battery is anticipate to decline from UPS system manufacturers resulting in decrease in production of lead-acid battery and the demand of carbon black additives from battery manufacturers.

Key benefits for stakeholders

Porter’s five forces analysis helps analyze the potential of buyers & suppliers and the competitive scenario of the industry for strategy building.

The report outlines the current trends and future scenario of the global carbon black in lead-acid battery market from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

Major countries in the region have been mapped according to their individual revenue contribution to the regional market.

The key drivers, restraints, & opportunities and their detailed impact analysis are explained in the global carbon black in lead-acid battery market study.

The profiles of key players and with their key strategic developments are enlisted in the global carbon black in lead-acid battery market report.

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Key market segments

- By Application
- Industrial Water Treatment
- Pulp & Paper Processing
- Oil & Gas
- Medical
- Food & Beverages
- Others
- By Region
- North America
  - U.S.
  - Canada
  - Mexico
- Europe
  - Germany
  - France
  - Italy
  - Spain
  - UK
  - Rest of Europe

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- Asia-Pacific
  - China
  - Japan
  - South Korea
  - India
  - Australia
  - Rest of Asia-Pacific
- LAMEA
  - Brazil
  - Saudi Arabia
  - South Africa
  - Rest of LAMEA

Key market segments

- By Battery Type
- Flooded Lead-Acid Battery
- Valve Regulated Lead-Acid (VRLA) Battery
- By Grade
- Specialty
- Conductive

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By Region

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Canada

Mexico

Europe

Germany

France

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

South Korea

India

Australia

Rest of Asia-Pacific

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LAMEA

- Brazil
- Saudi Arabia
- South Africa
- Rest of LAMEA

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