

# Lightweight Materials Market by Type (Metal Alloys, Composites & Polymers, and Others), Application (Automotive, Aerospace & Wind, and Others)-Global Opportunity Analysis and Industry Forecast, 2014-2022

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## Abstracts

Lightweight materials comprise highly permeable materials with minimal weight, generally lightweight steel, magnesium, aluminum, and composites, and are generally used in weight reduction of various automobiles, aircrafts, and windmills without altering the strength of the overall structure. High strength steel has high level of weight reduction properties, as these materials reduce the overall weight of the structure without hampering the overall strength, making it feasible for automobiles.

The market for lightweight materials has considerably increased in the recent past, due to increase in consumer inclination towards fuel efficient vehicles and increase in government investments in electricity generation by integrating renewable sources of energy, such as wind energy and hydroelectric energy, wherein lightweight materials are used in windmill blades and turbines. The world lightweight materials market is expected to reach a market value of \$196,299 million by 2022, registering a CAGR of 4.2% between 2016 to 2022.

Increase in penetration of lightweight components to fuel the market as well as rise in production of aircraft modules to uplift the demand for advanced composites and other lightweight materials drive the lightweight materials market. Moreover, increase in usage of lightweight materials in windmill blades and turbines and other industrial and packaging goods is another key factor that drives the growth of the overall market. Challenges faced by this industry are rapid fluctuations in raw material prices coupled with high cost of carbon fiber that restrict the usage in manufacturing of automotive components.

The world lightweight materials market is segmented on the basis of type, application,

and geography. Based on type, the market is classified into metal alloys, composites, and polymers, and others. The metal alloys segment dominated the world lightweight materials market in 2014, and is expected to maintain its lead throughout the forecast period. The composites and polymers segment is anticipated to grow at a significant CAGR of 3.7% over the forecast period. Geographically, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Asia-Pacific occupied more than 35% of the total revenue share in 2015, followed by Europe and North America. Top players in the market invest huge capital in R&D activities to develop enhanced products to cater to the current demand. Major players in the lightweight materials market are

E.I DuPont de Nemours and Company

Cytec Industries Inc.

ExxonMobil Corporation

SABIC

Bayer AG

Toray Industries Inc.

Novelis Inc.

ArcelorMittal SA

PPG Industries Inc.

Alcoa Inc.

## KEY BENEFITS

The report provides an extensive analysis of the current trends and future estimations and opportunities in the world lightweight materials market.

The report necessitates the detailed qualitative and quantitative analysis of the market from 2014 to 2022, which assists to evaluate the prevailing market

opportunities.

Comprehensive analysis of factors that drive and restrict the growth of the market is provided.

Market estimations and forecasts in this report are accessed by analyzing the factors affecting the growth of the market and future market potential from 2014 to 2022, in terms of value and volume.

Region and country-specific analysis of market value and volume is based on primary as well as secondary sources and are comprehensively analyzed.

Competitive intelligence of leading producers and suppliers of lightweight materials interpret the competitive scenario across the geographies.

Extensive analysis is conducted by following key product positioning and monitoring the top competitors within the market framework.

The report provides key insights on strategic analysis of various companies as well as the value chain for lightweight materials.

## **KEY MARKET SEGMENTS**

### By Type

Metal Alloys

Aluminum

Steel

Magnesium

Titanium

Composites and Polymers

Others (Ceramic and Fiberglass)

## By Application

Automotive

Aerospace and Wind

Others (Transportation, Packaging, and Other Engineered Goods)

## By Geography

North America

U.S.

Canada

Mexico

Europe

Russia

Germany

France

UK

Rest of Europe

Asia-Pacific

China

Japan

India

Rest of APAC

LAMEA

Brazil

Argentina

Saudi Arabia

South Africa

Rest of LAMEA

## Company Profiles

E.I DuPont de Nemours and Company

Cytec Industries Inc.

ExxonMobil Corporation

SABIC

Bayer AG

Toray Industries Inc.

Novelis Inc.

ArcelorMittal SA

PPG Industries Inc.

Alcoa Inc.

Other players in the value chain include

ThyssenKrupp AG

Henkel Corporation

Owens Corning Corporation

LyondellBasell Industries N.V.

Hexcel Corporation

SGL Group

Nippon Graphite Fiber Corporation

Mitsubishi Rayon Co. Ltd.

Zoltek Companies Inc

UC Rusal

Aluminium Corporation of China

Rio Tinto Alcan Inc.

China Hongqiao Group Ltd.

Kaiser Aluminium

US Magnesium LLC

A&S Magnesium Inc.

Profiles of these companies can be included in the report based on client request

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Henkel Corporation

Owens Corning Corporation

LyondellBasell Industries N.V.

Hexcel Corporation

SGL Group

Nippon Graphite Fiber Corporation

Mitsubishi Rayon Co. Ltd.

Zoltek Companies Inc

UC Rusal

Aluminium Corporation of China

Rio Tinto Alcan Inc.

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