

# **Armor Materials Market by Material Type (Metals & Alloys, Ceramics, Composites, Para-Aramid Fibers, Ultra-high-molecular-weight Polyethylene (UHMWPE), Fiberglass, and Others) and Application (Vehicle, Aerospace, Body, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027**

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## **Abstracts**

The global armor materials market size was valued at \$10.6 billion in 2019, and is projected to reach \$15.7 billion by 2027, growing at a CAGR of 5.3% from 2020 to 2027.

Armor materials, used as protective clothing, provides protection against any impact of projectiles or other weapons. Advanced ceramics are widely used to produce lightweight body armors which are effective against bullets. The armor made of advanced fiber absorbs the impact of bullets by dispersing the energy across a large area of the armor.

Growing preference of composite materials in mobile military equipment, such as tanks and large ships, will positively impact the market growth. Composite materials with multiple layers provide protection against heavy and explosive projectiles. Additionally, the lightweight composite material made of S-2 Glass fibers and phenolic resin offer significant protection for high mobility multi-purpose wheeled vehicles. Growing application of titanium alloys in airframe armor composite is expected to drive the market growth. Additionally, growing preference of lightweight armor materials such as Kevlar aramid fibers and ceramics materials over conventional steel metal alloys will further enhance the market growth. Aramid materials are highly rigid and provide enhanced protection against low and medium range ballistic threats. However, simple fiber-based composite armors are not effective against multiple ballistic and blast

threats. Furthermore, limited application of multi layered composite material due to large weight and high cost is expected to hinder the market growth.

The armor materials market is segmented on the basis of material type, application, and region. On the basis of material type, it is divided into metals and alloys, ceramics, composites, para-aramid fibers, ultra-high-molecular-weight polyethylene (UHMWPE), fiberglass, and others. Based on application, it is categorized into vehicle, aerospace, body, and others. Based on region, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA, with country level analysis of each region.

Major players have adopted product launch, collaboration, and acquisition to sustain the intense market competition. The key players profiled in the report include DuPont, DSM, Honeywell International Inc., Saint-Gobain, 3M, KONINKLIJKE TEN CATE BV., SAAB AB, and ATI.

#### COVID-19 Scenario Analysis:

This global armor materials market is expected to witness temporary downfall in the market demand. This is attributed to stringent regulations imposed to maintain social distancing and extended lockdown.

Manufacturers are operating at a limited production capacity and limitation of active labor force lead to further reduction of production capacity.

In many nations, the defense equipment, including armors, weapons, and vehicles are imported from other countries. However, in the midst of the pandemic, due to the restrictions on cross border imports, the supply chain is completely disrupted.

Moreover, the upstream and downstream channel of the manufacturers have been affected due to restrictions on movement, and implementation of nationwide lockdown.

#### KEY BENEFITS FOR STAKEHOLDERS

The global armor materials market analysis covers in-depth information of major industry participants.

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

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

The report provides an in-depth analysis of the global armor materials market forecast for the period 2020–2027.

The report outlines the current global armor materials market trends and future estimations of the global armor materials market from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

The key drivers, restraints, and global armor materials market opportunity and their detailed impact analysis is elucidated in the study.

## KEY MARKET SEGMENTS

By Material Type

Metals & Alloys

Ceramics

Composites

Para-Aramid Fibers

Ultra-high-molecular-weight Polyethylene (UHMWPE)

Fiberglass

Others

By Application

Vehicle

Aerospace

Body

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

Russia

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

Turkey

Rest of LAMEA

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