

Armor Materials Market Report by Type (Metals and Alloys, Ceramics, Composites, Para-Aramid Fibers, Ultra-High-Molecular-Weight Polyethylene, Fiberglass, and Others), Protection Type (Airborne Ballistics, Blasts and Explosion), Application (Aerospace, Body Armor, Civil Armor, Marine Armor, Vehicle Armor), and Region 2024-2032

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Abstracts

The global armor materials market size reached US\$ 12.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 19.9 Billion by 2032, exhibiting a growth rate (CAGR) of 5% during 2024-2032.

Armor materials are specialized protective fabrics that are used for absorbing shocks and minimizing the impact or damage caused by external forces. These materials absorb the impact of bullets by dispersing the energy across the surface. They are manufactured using leather, ceramics, metals, para-aramid fiber, alloy and fiberglass materials. Armor materials are also produced using ceramics, such as aluminum oxide, boron carbide, titanium boride, silicon carbide, synthetic diamond composite (syndite) and aluminum nitride. These materials are widely used in bulletproof vests, armors, helmets and vehicles and exhibit high structural strength, fracture and crack resistance and chemical inertness. They are comfortable to wear, lightweight, durable and provide enhanced protection against handguns and sharp-edged weapons.

Armor Materials Market Trends:

Significant growth in the military and defense industries is one of the key factors creating a positive outlook for the market. Armor materials are widely used to protect the soldiers on the battlefield during combat and reduce the intensity of bullets and

approaching weapons. Moreover, the widespread product utilization to protect military vehicles from bullets, shrapnel and missiles is favoring the market growth. Various product innovations, such as the launch of lightweight armor materials that are highly sustainable and flexible and provide enhanced protection to the users, are providing a thrust to the market growth. In line with this, the increasing product demand in the marine industry to protect assets against underwater torpedoes, shellfire and ultraviolet (UV) rays is positively impacting the market growth. Other factors, including the widespread adoption of ultra-high-molecular-weight polyethylene to manufacture flexible, lightweight and durable bulletproof vests, along with the implementation of various government initiatives to promote soldier modernization strategy, especially in the developing nations, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global armor materials market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, protection type and application.

Breakup by Type:

- Metals and Alloys
- Ceramics
- Composites
- Para-Aramid Fibers
- Ultra-High-Molecular-Weight Polyethylene
- Fiberglass
- Others

Breakup by Protection Type:

- Airborne Ballistics
- Blasts and Explosion

Breakup by Application:

- Aerospace
- Body Armor
- Civil Armor
- Marine Armor

Vehicle Armor

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Allegheny Technologies Incorporated, Avon Rubber p.l.c., CeramTec TopCo GmbH, CoorsTek Inc., DuPont de Nemours Inc., Honeywell International Inc, Koninklijke DSM N.V., Koninklijke Ten Cate B.V., Morgan Advanced Materials, PPG Industries Inc., Saab AB and Saint-Gobain S.A.

Key Questions Answered in This Report

1. What was the size of the global armor materials market in 2023?

2. What is the expected growth rate of the global armor materials market during 2024-2032?
3. What are the key factors driving the global armor materials market?
4. What has been the impact of COVID-19 on the global armor materials market?
5. What is the breakup of the global armor materials market based on the type?
6. What is the breakup of the global armor materials market based on the application?
7. What are the key regions in the global armor materials market?
8. Who are the key players/companies in the global armor materials market?

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