

Global Carbon Fiber Aluminum Gas Cylinders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Aluminum Gas Cylinders market size is expected to reach \$ 1072 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Carbon fiber aluminum gas cylinders?also known as carbon-fiber-wrapped, aluminum-lined composite cylinders?are high-performance, lightweight pressure vessels widely used in fields such as respiratory protection, firefighting, medical care, diving, onboard hydrogen fuel storage, and industrial gas transport. In 2025, global Carbon Fiber Aluminum Gas Cylinders production reached approximately 1346 k units, with an average global market price of around 500 US\$/Unit. The production capacity of Carbon Fiber Aluminum Gas Cylinders reaches 1790 k units, and the industry's gross profit margin is approximately between 20% and 50%.

The growth of the carbon fiber aluminum gas cylinder market is mainly driven by factors such as increased demand for lightweight high-pressure gas storage equipment, upgrades to fire-fighting and emergency rescue equipment, increased application of portable medical oxygen, development of CNG and hydrogen energy transportation, and higher requirements for safe storage and transportation of industrial gases. Compared to traditional steel cylinders and standard aluminum cylinders, carbon-fiber-wrapped composite cylinders with aluminum liners offer advantages such as low weight, high strength, corrosion and fatigue resistance, and superior high-pressure load-bearing capacity; these features significantly reduce the operational burden and transportation costs associated with firefighting breathing apparatus, medical oxygen cylinders, vehicle-mounted gas storage systems, and hydrogen storage equipment. Driven by firefighters' and industrial safety personnel's demands for greater comfort during prolonged use, the growing need for lightweight portable cylinders in medical emergency care and home

oxygen therapy, and the expanding market for high-pressure, lightweight storage vessels in fuel-cell vehicles, drones, mobile hydrogen storage, and CNG vehicles, these cylinders are expanding beyond traditional SCBA and medical oxygen applications into sectors such as hydrogen energy, transportation, industrial gases, and specialized equipment. Furthermore, advancements in carbon fiber materials, aluminum liner forming, filament winding processes, resin curing, and non-destructive testing technologies are propelling product upgrades toward higher pressure ratings, larger capacities, extended service lives, and superior safety certification standards.

This report studies the global Carbon Fiber Aluminum Gas Cylinders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Aluminum Gas Cylinders and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fiber Aluminum Gas Cylinders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Aluminum Gas Cylinders total production and demand, 2021-2032, (K Units)

Global Carbon Fiber Aluminum Gas Cylinders total production value, 2021-2032, (USD Million)

Global Carbon Fiber Aluminum Gas Cylinders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Carbon Fiber Aluminum Gas Cylinders consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Carbon Fiber Aluminum Gas Cylinders domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Aluminum Gas Cylinders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Carbon Fiber Aluminum Gas Cylinders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Carbon Fiber Aluminum Gas Cylinders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Carbon Fiber Aluminum Gas Cylinders market based on the following parameters - company overview, production, value, price,

gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Luxfer Gas Cylinders, Faber Industrie, Worthington Enterprises, Sinoma Science & Technology, Dräger, Beijing Tianhai Industrial, Faurecia Silinda, Zhejiang Rein Hytec, Liaoning Metal Technology, Time Technoplast, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fiber Aluminum Gas Cylinders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fiber Aluminum Gas Cylinders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Aluminum Gas Cylinders Market, Segmentation by Type:

≥30 MPa

35MPa

70MPa

Global Carbon Fiber Aluminum Gas Cylinders Market, Segmentation by Capacity:

Small Capacity

Medium Capacity

Large Capacity

Global Carbon Fiber Aluminum Gas Cylinders Market, Segmentation by Application:

Firefighting and Emergency Rescue

Medical

Automotive

Others

Companies Profiled:

Luxfer Gas Cylinders

Faber Industrie

Worthington Enterprises

Sinoma Science & Technology

Dr?ger

Beijing Tianhai Industrial

Faurecia Silinda

Zhejiang Rein Hytec

Liaoning Metal Technology

Time Technoplast

Zhejiang Kaibo Pressure Vessel

AMS Composite Cylinders

MSA Safety

Steelhead Composites

Key Questions Answered:

1. How big is the global Carbon Fiber Aluminum Gas Cylinders market?
2. What is the demand of the global Carbon Fiber Aluminum Gas Cylinders market?
3. What is the year over year growth of the global Carbon Fiber Aluminum Gas Cylinders market?
4. What is the production and production value of the global Carbon Fiber Aluminum Gas Cylinders market?
5. Who are the key producers in the global Carbon Fiber Aluminum Gas Cylinders market?
6. What are the growth factors driving the market demand?

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