

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

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Abstracts

The global Aluminum Liner Carbon Fiber Fully Wrapped 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).

The aluminum liner carbon fiber fully wrapped cylinder is a novel type of high-pressure cylinder. It employs an aluminum alloy liner as the pressure-bearing main body, which is fully wrapped with high-performance carbon fiber composite materials on its exterior. This structure integrates the advantages of aluminum alloy, such as good corrosion resistance and high strength, with the high specific strength and high specific modulus of carbon fiber, enabling the cylinder to possess characteristics including lightweight, high strength, excellent safety, and long service life. In 2025, global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders production reached approximately 1346 k units, with an average global market price of around 500 US\$/Unit. The production capacity of Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders reaches 1790 k units, and the industry's gross profit margin is approximately between 20% and 50%.

The growth of the market for carbon-fiber fully wrapped gas cylinders with aluminum liners is primarily driven by the rising demand for lightweight high-pressure gas storage equipment, the upgrading of firefighting and emergency rescue gear, the increased use of portable medical oxygen, the development of CNG and hydrogen-powered transportation, and stricter safety requirements for the storage and transport of industrial gases. Compared to traditional steel cylinders and standard aluminum cylinders, these composite cylinders offer advantages such as light weight, high strength, corrosion and fatigue resistance, and superior high-pressure load-bearing capacity; they 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 increasing demands for 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, technological advancements in carbon fiber materials, aluminum liner forming, filament winding processes, resin curing, and non-destructive testing are propelling product upgrades toward higher pressures, larger capacities, longer service lives, and higher safety certification standards.

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

This report is a detailed and comprehensive analysis of the world market for Aluminum Liner Carbon Fiber Fully Wrapped 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 Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

Global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders production by Type,

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

This report profiles key players in the global Aluminum Liner Carbon Fiber Fully Wrapped 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 Aluminum Liner Carbon Fiber Fully Wrapped 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 Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

≤30 MPa

35MPa

70MPa

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

Small Capacity

Medium Capacity

Large Capacity

Global Aluminum Liner Carbon Fiber Fully Wrapped 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

Dräger

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 Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market?
2. What is the demand of the global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market?
3. What is the year over year growth of the global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market?
4. What is the production and production value of the global Aluminum Liner Carbon

Fiber Fully Wrapped Gas Cylinders market?

5. Who are the key producers in the global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market?

6. What are the growth factors driving the market demand?

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