

Global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G75096B740CDEN.html>

Date: July 2026

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: G75096B740CDEN

Abstracts

According to our (Global Info Research) latest study, the global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market size was valued at US\$ 692 million in 2025 and is forecast to a readjusted size of US\$ 1072 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP

(US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

≥30 MPa

35MPa

70MPa

Market segment by Capacity

Small Capacity

Medium Capacity

Large Capacity

Market segment by Application

Firefighting and Emergency Rescue

Medical

Automotive

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders, with price, sales quantity, revenue, and global market share of Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders from 2021 to 2026.

Chapter 3, the Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders.

Chapter 14 and 15, to describe Aluminum Liner Carbon Fiber Fully Wrapped Gas Cylinders sales channel, distributors, customers, research findings and conclusion.

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