

Global Carbon Fiber Pressure Vessel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Fiber Pressure Vessel market size was valued at US\$ 671 million in 2024 and is forecast to a readjusted size of USD 1349 million by 2031 with a CAGR of 10.6% during review period.

Carbon Fiber Reinforced Polymer Composites (CFRP) are lightweight, strong materials used in the manufacturing of numerous products used in our daily life. In general, CFRP composites use thermosetting resins such as epoxy, polyester, or vinyl ester.

Pressure vessel composite materials are used in manufacturing pressure vessels that are used to store gases and liquids under high pressure. The strength of the vessel is the critical parameter to prevent explosions as a result of the rupture. A composite material is a combination of materials differing in composition or form on a macro scale. These materials do not dissolve or otherwise merge completely into each other. Composite materials help to improve the performance and also offers a significant amount of material savings.

Since 1970 pressure vessel manufacturers have been using continuous fibers filaments, also known as tows or roving, to improve the physical properties of pressure vessels. Starting with what the industry calls a type II vessel; high strength fibers, such as glass fiber, were wrapped around the cylindrical sections of steel and aluminum pressure vessels to add reinforcement allowing a roughly 30% reduction in overall vessel mass.

As the fiber reinforcement became more and more significant in pressure vessel design, fiber manufacturers began refining their offerings and experimenting with new fiber

types like carbon fiber, which is currently the most popular reinforcement in composite pressure vessels, because of its incredible stiffness and tensile strength. In addition to carbon and glass, new fibers were created such as Kevlar a type of aramid fiber and basalt fiber. These new fibers offered contrasting mechanical properties such as impact resistance, and low temperature resistance to the pressure vessel designer's arsenal.

As new composite pressure vessel applications emerged, the need for unique mechanical properties and increasing economic pressures create a need for hybrid vessels which could either use distinct and separate layers of fiber for different roles such as impact/ abrasion resistance, or different fibers in the same band to get the properties of both fibers throughout the laminate.

The evolution of vessels and tanks designed to hold liquids and gases under pressure has proceeded through four distinct stages: all-metal tanks (Type I), metal hoop-wrapped composite tanks (Type II), metal-lined composite tanks (Type III) and plastic-lined composite tanks (Type IV). The fifth stage, an all-composite, linerless Type V tank has been the pressure vessel industry's Holy Grail for years.

Global core carbon fiber pressure vessel manufacturers include Luxfer Group, Iljin Composites Corp, Faber Industrie SpA etc. North America is the largest market, occupied for about 30 percent, followed by South Korea, which holds around 21% market share, and China holds a share about 20%. In terms of type, type III carbon fiber pressure vessel segment occupied main global market, holds share over 70 percent. In terms of application, SCBA/SCUBA segment holds share about 26 percent close to 28% for CNG storage tank.

This report is a detailed and comprehensive analysis for global Carbon Fiber Pressure Vessel 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 Carbon Fiber Pressure Vessel market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Units), 2020-2031

Global Carbon Fiber Pressure Vessel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Units), 2020-2031

Global Carbon Fiber Pressure Vessel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Units), 2020-2031

Global Carbon Fiber Pressure Vessel market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Units), 2020-2025

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 Carbon Fiber Pressure Vessel

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 Carbon Fiber Pressure Vessel 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 Group, Iljin Composites Corp, Faber Industrie SpA, Worthington Industries, 3M Scott, Shenyang Gas Cylinder, Toyota, Sinoma Science & Technology, Beijing China Tank Industry, AMS Composite Cylinders, etc.

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

Market Segmentation

Carbon Fiber Pressure Vessel market is split by Type and by Application. For the period 2020-2031, 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

Type III

Type IV

Others

Market segment by Application

CNG Storage Tank

SCBA/SCUBA

Hydrogen Storage Tank

Others

Major players covered

Luxfer Group

Iijin Composites Corp

Faber Industrie SpA

Worthington Industries

3M Scott

Shenyang Gas Cylinder

Toyota

Sinoma Science & Technology

Beijing China Tank Industry

AMS Composite Cylinders

Beijing Tianhai Industry

Teijin Engineering Limited

NPROXX

Doosan

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 Carbon Fiber Pressure Vessel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Fiber Pressure Vessel, with price, sales quantity, revenue, and global market share of Carbon Fiber Pressure Vessel from 2020 to 2025.

Chapter 3, the Carbon Fiber Pressure Vessel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Fiber Pressure Vessel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Carbon Fiber Pressure Vessel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Carbon Fiber Pressure Vessel.

Chapter 14 and 15, to describe Carbon Fiber Pressure Vessel sales channel, distributors, customers, research findings and conclusion.

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