

# Global Carbon Fiber Pressure Vessel Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Carbon Fiber Pressure Vessel market size will reach 828.20 Million USD in 2025 and is projected to reach 1,473.62 Million USD by 2032, with a CAGR of 8.58% (2025-2032). Notably, the China Carbon Fiber Pressure Vessel market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A carbon fiber pressure vessel is a type of storage container specifically designed to withstand high-pressure conditions while being lightweight and durable. It is constructed using carbon fiber composite materials, typically composed of carbon fiber layers bonded together with a resin matrix. Carbon fiber pressure vessels are widely used in various industries, including aerospace, automotive, and alternative fuel storage. They offer several advantages over traditional metallic pressure vessels, including reduced weight, increased strength, and improved resistance to corrosion and fatigue. The high strength-to-weight ratio of carbon fiber allows for higher pressure capacity without adding excessive weight. These pressure vessels find application in storing compressed gases, such as hydrogen, natural gas, and industrial gases, as well as in aerospace applications like fuel tanks for rockets and spacecraft. Carbon fiber pressure vessels contribute to the advancement of lightweight and high-performance systems that require reliable and safe storage of pressurized substances.

The major global manufacturers of Carbon Fiber Pressure Vessel include Luxfer Group,

Ijjin Composites Corp, Faber Industrie, 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Carbon Fiber Pressure Vessel. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Carbon Fiber Pressure Vessel market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Carbon Fiber Pressure Vessel market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Carbon Fiber Pressure Vessel industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Carbon Fiber Pressure Vessel Include:

Luxfer Group

Ijjin Composites Corp

Faber Industrie

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

Carbon Fiber Pressure Vessel Product Segment Include:

Type III

Type IV

Others

Carbon Fiber Pressure Vessel Product Application Include:

CNG Storage Tank

SCBA/SCUBA

Hydrogen Storage Tank

Others

## **Chapter Scope**

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