

Global Type IV 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 Type IV Carbon Fiber Pressure Vessel market size was valued at US\$ 424 million in 2024 and is forecast to a readjusted size of USD 1347 million by 2031 with a CAGR of 18.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Type IV Carbon Fiber Pressure Vessel is a vessel made of all carbon fibre, with an inner liner of polyamide or polyethylene plastic. Type IV carbon fiber pressure vessels are known for their composite construction. Unlike traditional metal vessels, Type IV carbon fiber vessels are made with a polymer (typically a thermoplastic) liner and reinforced with a carbon fiber composite material. This construction offers superior strength-to-weight ratios and excellent corrosion resistance, making them ideal for storing gases under high pressure, such as hydrogen or natural gas.

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

Global Type IV 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\$/Unit), 2020-2031

Global Type IV 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\$/Unit), 2020-2031

Global Type IV Carbon Fiber Pressure Vessel market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Type IV 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 Type IV 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, Hexagon Purus, ILJIN Hysolus, Faber Industrie SpA, Worthington Enterprises, OPmobility, Forvia, Zhongcai Technology, Kautex Maschinenbau, Steelhead Composites, etc.

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

Market Segmentation

Type IV 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

250 Bar

350 Bar

700 Bar

Others

Market segment by Application

CNG Storage Tank

LPG Storage Tank

Hydrogen Storage Tank

Major players covered

Luxfer Group

Hexagon Purus

ILJIN Hysolus

Faber Industrie SpA

Worthington Enterprises

OPmobility

Forvia

Zhongcai Technology

Kautex Maschinenbau

Steelhead Composites

NPROXX

Quantum Fuel Systems

Beijing Tianhai Industry

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

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

Chapter 3, the Type IV 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 Type IV 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 Type IV 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 Type IV Carbon Fiber Pressure Vessel.

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

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