

Global Pressure Vessel Composite Materials Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Pressure Vessel Composite Materials market size will reach 1,981.92 Million USD in 2025 and is projected to reach 2,807.41 Million USD by 2032, with a CAGR of 5.10% (2025-2032). Notably, the China Pressure Vessel Composite Materials 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

Pressure vessel composite materials refer to advanced materials used in the construction of pressure vessels, which are containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. Traditional pressure vessels have been constructed from metals like steel, but pressure vessel composite materials involve the use of reinforced composite materials such as fiber-reinforced polymers (FRP), carbon fiber composites, or glass fiber composites. These materials offer advantages like high strength-to-weight ratio, corrosion resistance, and the ability to tailor mechanical properties for specific applications. The use of pressure vessel composite materials is particularly prevalent in industries where weight reduction, corrosion resistance, and design flexibility are critical factors, such as aerospace, automotive, and chemical processing. The composite nature of these materials allows for innovative designs and improved performance characteristics compared to traditional metallic pressure vessels.

The major global manufacturers of Pressure Vessel Composite Materials include Hexagon Composites, Pentair, Protec Arisawa, Wave Cyber, ROPV, Aburi Composites, BEL Group, Jiangsu Pengyu, Applied Membranes, Steelhead Composites, 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 Pressure Vessel Composite Materials. 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 Pressure Vessel Composite Materials 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 Pressure Vessel Composite Materials 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 Pressure Vessel Composite Materials 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 Pressure Vessel Composite Materials Include:

Hexagon Composites

Pentair

Protec Arisawa

Wave Cyber

ROPV

Aburi Composites

BEL Group

Jiangsu Pengyu

Applied Membranes

Steelhead Composites

NPROXX

Doosan

Pressure Vessel Composite Materials Product Segment Include:

Glass Fiber Reinforced Composite

Carbon Fiber Reinforced Composite

Pressure Vessel Composite Materials Product Application Include:

Water Treatment

Composite LPG Cylinders

Gas Storage

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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