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Global Lightweight Carbon Composite Gas Cylinder Market Growth 2025-2031

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Abstracts

The global Lightweight Carbon Composite Gas Cylinder market size is predicted to grow from US$ 875 million in 2025 to US$ 1275 million in 2031; it is expected to grow at a CAGR of 6.5% from 2025 to 2031.

A Lightweight Carbon Composite Gas Cylinder is a type of high-strength, lightweight gas storage vessel made from a combination of a carbon fiber composite overwrap and a metal liner (usually aluminum or steel). These cylinders are designed to store gases at high pressures, typically for use in applications where weight reduction is critical, such as in transportation, aerospace, and industrial sectors. The carbon fiber composite wrap provides enhanced strength and durability while reducing the overall weight of the cylinder, making them ideal for applications requiring frequent handling or mobility.

United States market for Lightweight Carbon Composite Gas Cylinder is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Lightweight Carbon Composite Gas Cylinder is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Lightweight Carbon Composite Gas Cylinder is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Lightweight Carbon Composite Gas Cylinder players cover NPROXX, Luxfer Gas Cylinder, Hexagon Composites, Faber, Worthington cylinders, etc. In terms of

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revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Lightweight Carbon Composite Gas Cylinder Industry Forecast” looks at past sales and reviews total world Lightweight Carbon Composite Gas Cylinder sales in 2024, providing a comprehensive analysis by region and market sector of projected Lightweight Carbon Composite Gas Cylinder sales for 2025 through 2031. With Lightweight Carbon Composite Gas Cylinder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Lightweight Carbon Composite Gas Cylinder industry.

This Insight Report provides a comprehensive analysis of the global Lightweight Carbon Composite Gas Cylinder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Lightweight Carbon Composite Gas Cylinder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Lightweight Carbon Composite Gas Cylinder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lightweight Carbon Composite Gas Cylinder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Lightweight Carbon Composite Gas Cylinder.

This report presents a comprehensive overview, market shares, and growth opportunities of Lightweight Carbon Composite Gas Cylinder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Metal Liner with Carbon Composite Overwrap

Metal Liner with Carbon Fiber Reinforced Overwrap

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Full Carbon Composite Cylinder

Fully Composite Cylinder with Polymer Liner

Segmentation by Application:

Compressed Natural Gas (CNG)

Medical Gas

Industrial Gases

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NPROXX

Luxfer Gas Cylinder

Hexagon Composites

Faber

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Worthington cylinders

Dr?gerwerk

Beijing Tianhai Industrial

Aceccse (Hangzhou) Composite Co., Ltd

KBC Co

Meto

Sinoma Science & Technology Co

FORVIA Faurecia

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lightweight Carbon Composite Gas Cylinder market?

What factors are driving Lightweight Carbon Composite Gas Cylinder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Lightweight Carbon Composite Gas Cylinder market opportunities vary by end market size?

How does Lightweight Carbon Composite Gas Cylinder break out by Type, by Application?

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