

Europe Composite LPG Cylinder Market Segmented By Product (Type III, Type IV), By Size (0 to 5 Kg, 6 to 10 Kg, and 11 Kg & Above), By Application (Kitchen & Domestic Use, Transportation, Recreational Use, and Others), By Country, Competition, Forecast and Opportunities, 2028

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Abstracts

Europe composite LPG cylinder market is anticipated to grow at a steady pace in the forecast period, 2024-2028. Increased demand for transportation storage containers for liquid petroleum gas (LPG) and compressed natural gas (CNG) is anticipated to fuel the expansion of the composite cylinder market. Additionally, a variety of end-use industries, including transportation, aerospace & defense, wind energy, and construction & infrastructure, are increasingly adopting composite cylinders.

A composite cylinder has three layers: an inner liner made of blow-molded HDPE; a composite layer composed of polymer-wrapped fiber glass; and an outside jacket made of HDPE.

Compared to the current steel cylinders, these modern composite cylinders provide several benefits. They are lightweight as a composite cylinder's tare weight is half that of a steel cylinder. They have a translucent body that makes it easier for users to precisely measure the LPG level in relation to light. Customers will be able to quickly plan their next refill using this. They don't corrode and don't rust as the likelihood of leaving stains and markings on surfaces is decreased. They are artistically pleasing and perfect for today's modern kitchens because of their beautiful design.

Rise in the Usage of Composite LPG Cylinders for Various Application

A fuel that burns cleanly, is sustainable, and is effective, is liquefied petroleum gas (LPG). It is a clean, efficient, low-carbon, and cutting-edge energy source. It offers customers benefits. Environmental and industrial issues Since most of the energy in LPG is converted to heat, it is less expensive than other conventional fuels and can be used for a variety of purposes, including transportation, storage, and auto gas.

LPG is normally stored under pressure, which changes it from a gas to a liquid. The simplicity of transporting LPG over other energy sources is one of its main benefits. It contains no sulphur and has a superior heating value. Compared to other forms of energy, LPG is more dependable because it burns frequently. Compared to other energy sources, LPG has a better environmental impact. All energy sources produce carbon dioxide, but when compared to oil, LPG emits just 81% of what oil does. LPG emits only 70% of the carbon dioxide emitted by coal, another energy source.

Innovative Cylinders and Technological Advancements

To meet shifting consumer needs, petrol cylinder manufacturers are constantly enhancing their cylinder bundles. Increased pressures, digital displays, and newly designed guards and valves make it possible to transfer more gas, intelligent cylinders, and simpler loads without sacrificing safety. The need for safe, controlled gas cylinders is growing as the transfer of highly valuable gases becomes increasingly important. Compression techniques for volatile and nonreactive gases have improved, which has an impact on gas cylinder manufacturing. The handling and storage capacities of gas cylinders have been improved through increased safety and cutting-edge cylinder designs.

The market for composite LPG cylinders anticipated to increase because of the rise in cylinder innovation and technical advancements.

Strained Supply Chain System

Every industry in the world is experiencing enormous challenges because of the global supply chain crisis. The outbreak of COVID-19 and Europe's response to it have caused a shipping issue. Sea freight costs are at an all-time high, demand is outpacing supply, and container capacity is severely constrained. Unfortunately, there is no simple solution, and it seems that in the first half of 2022, there will still be high shipping costs, longer lead times, and capacity bottlenecks. Businesses involved in shipping anticipated that things would start to turn around in the second half of the year.

Another barrier to the supply chain in Europe was the significant raw materials required to make petrol cylinders. The outbreak has significantly disrupted mining and industry around the world, leading to a shortage of aluminum in Europe. As a result, carbon fiber prices have reached record highs, aluminum prices have doubled, and cylinder manufacturers are unable to increase production capacity by acquiring enough aluminum. Unintended repercussions of the Russian invasion of Ukraine include rising petrol costs and flights being redirected to avoid Russian airspace. This can be resolved by storing adequate number of gases and all the other things in times of war and pandemics, so as to avoid chaos.

Properties of LPG Cylinders

The cylinder is made strong by composite reinforcing. LPG composite cylinders are employed in a variety of settings, including as houses, boats, forklifts, resorts, hotels, mobile homes, caravans, and other similar structures. Brass inserts usually welded to an HDPE boss that was injection-molded or incorporated during the molding process, is used to mount the cylinder. Glass fibres wound with epoxy resin-impregnated resin serve as reinforcement. This layer can endure the pressure of LPG and has an incredibly high strength-to-weight ratio. A HDPE outer casing will increase the strength even more. In addition to offering protection, this has an ergonomic grip and is built to stack.

Conventional steel cylinders are heavier, more prone to corrosion, don't indicate the gas level, and are not protected from fire-related explosions. Contrarily, LPG composite cylinders are transparent, rustproof, lightweight, and non-explosive. LPG is the most frequently utilized fuel for cooking. Composite LPG cylinders are lighter and less expensive to carry due to their lighter weight. Steel LPG cylinders weigh around twice as much as composite LPG cylinders for the same amount of LPG. Government initiatives in India, Indonesia, China, and Africa are pushing the use of LPG as a clean cooking fuel as well as a transportation fuel in response to our customers' desires. This is a result of the worldwide effort to reduce carbon emissions. The maximum pressure that a cylinder can withstand as a safety measure is known as the burst pressure, which is 2.4 times the test pressure.

Composite cylinders cannot explode, in contrast to steel cylinders. They are made from a fiberglass-bound composite layer that may burn in a fire without fear of causing an explosion and a non-metallic gas-tight lining. After consuming the flames for a few minutes, the exterior casing begins to melt, and LPG leaks out through the cylinder wall

from a separate spot, lowering internal pressure and only causing localized burning. All end users and all industries, especially gas companies, now have a safer option.

Market Segmentation

The Europe composite LPG cylinder market is segmented based on product, size, application, and country. Based on product, the market can be segmented into type III and type IV. Based on size, the market is divided into 0 to 5 Kg, 6 to 10 Kg, and 11 Kg & above. Based on application, the market is divided into kitchen & domestic use, transportation, recreational use, and others. Based on country, the market is fragmented into Germany, United Kingdom, France, Italy, Spain, and rest of Europe.

Market Players

Some of the major market players in the Europe composite LPG cylinder market are Hexagon Composites, Aburi Composites, Amtrol-Alfa, Time Technoplast Ltd., Metal Mate, ALAMAN Gas Cylinders, Worthington Industries, Maurya Udyog Limited, Sahamitr Pressure Container, and Metal Mate Co., Ltd.

Report Scope:

In this report, the Europe composite LPG cylinder market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Europe Composite LPG Cylinder Market, By Product:

Type III

Type IV

Europe Composite LPG Cylinder Market, By Size:

0 to 5 Kg

6 to 10 Kg

11 Kg & Above

Europe Composite LPG Cylinder Market, By Application:

Kitchen & Domestic Use

Transportation

Recreational Use

Others

Europe Composite LPG Cylinder Market, By Country:

Germany

United Kingdom

France

Italy

Spain

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Europe composite LPG cylinder market.

Available Customizations:

Europe composite LPG cylinder market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. Product Overview

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON EUROPE COMPOSITE LPG CYLINDER MARKET

5. VOICE OF CUSTOMERS

6. EUROPE COMPOSITE LPG CYLINDER MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product (Type III and Type IV)
 - 6.2.2. By Size (0 to 5 Kg, 6 to 10 Kg, and 11 Kg & Above)
 - 6.2.3. By Application (Kitchen & Domestic Use, Transportation, Recreational Use, and Others)
 - 6.2.4. By Country
- 6.3. By Company (2022)
- 6.4. Market Map

7. GERMANY COMPOSITE LPG CYLINDER MARKET OUTLOOK

7.1. Market Size & Forecast

Europe Composite LPG Cylinder Market Segmented By Product (Type III, Type IV), By Size (0 to 5 Kg, 6 to 10 Kg,...

- 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product
 - 7.2.2. By Size
 - 7.2.3. By Application

8. UNITED KINGDOM COMPOSITE LPG CYLINDER MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product
 - 8.2.2. By Size
 - 8.2.3. By Application

9. FRANCE COMPOSITE LPG CYLINDER MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Size
 - 9.2.3. By Application

10. ITALY COMPOSITE LPG CYLINDER MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Product
 - 10.2.2. By Size
 - 10.2.3. By Application

11. SPAIN COMPOSITE LPG CYLINDER MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Product

11.2.2. By Size

11.2.3. By Application

12. MARKET DYNAMICS

12.1. Drivers

12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

14. COMPANY PROFILES

14.1. Hexagon Composites

14.1.1. Business Overview

14.1.2. Key Revenue and Financials (If Available)

14.1.3. Recent Developments

14.1.4. Key Personnel

14.1.5. Key Product/Services

14.2. Aburi Composites

14.2.1. Business Overview

14.2.2. Key Revenue and Financials (If Available)

14.2.3. Recent Developments

14.2.4. Key Personnel

14.2.5. Key Product/Services

14.3. Amtrol-Alfa

14.3.1. Business Overview

14.3.2. Key Revenue and Financials (If Available)

14.3.3. Recent Developments

14.3.4. Key Personnel

14.3.5. Key Product/Services

14.4. Time Technoplast Ltd.

14.4.1. Business Overview

14.4.2. Key Revenue and Financials (If Available)

14.4.3. Recent Developments

14.4.4. Key Personnel

14.4.5. Key Product/Services

14.5. Metal Mate

14.5.1. Business Overview

- 14.5.2. Key Revenue and Financials (If Available)
- 14.5.3. Recent Developments
- 14.5.4. Key Personnel
- 14.5.5. Key Product/Services
- 14.6. ALAMAN Gas Cylinders
 - 14.6.1. Business Overview
 - 14.6.2. Key Revenue and Financials (If Available)
 - 14.6.3. Recent Developments
 - 14.6.4. Key Personnel
 - 14.6.5. Key Product/Services
- 14.7. Worthington Industries
 - 14.7.1. Business Overview
 - 14.7.2. Key Revenue and Financials (If Available)
 - 14.7.3. Recent Developments
 - 14.7.4. Key Personnel
 - 14.7.5. Key Product/Services
- 14.8. Maurya Udyog Limited
 - 14.8.1. Business Overview
 - 14.8.2. Key Revenue and Financials (If Available)
 - 14.8.3. Recent Developments
 - 14.8.4. Key Personnel
 - 14.8.5. Key Product/Services
- 14.9. Sahamitr Pressure Container
 - 14.9.1. Business Overview
 - 14.9.2. Key Revenue and Financials (If Available)
 - 14.9.3. Recent Developments
 - 14.9.4. Key Personnel
 - 14.9.5. Key Product/Services
- 14.10. Metal Mate Co., Ltd.
 - 14.10.1. Business Overview
 - 14.10.2. Key Revenue and Financials (If Available)
 - 14.10.3. Recent Developments
 - 14.10.4. Key Personnel
 - 14.10.5. Key Product/Services

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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