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GRP Pipes Market Forecasts to 2032 – Global Analysis By Product Type (Pressure Pipes and Non-Pressure Pipes), Resin Type (Epoxy-Based GRP Pipes, Polyester-Based GRP Pipes, Vinyl Ester-Based GRP Pipes and Other Resin Types), Diameter, Manufacturing Process, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global GRP Pipes Market is accounted for $5.3 billion in 2025 and is expected to reach $7.9 billion by 2032 growing at a CAGR of 5.8% during the forecast period. GRP (Glass Reinforced Plastic) pipes are composite pipes made from a combination of glass fibers and resin, providing a lightweight yet strong and durable material. Known for their resistance to corrosion, chemicals, and extreme weather, GRP pipes are commonly used in water distribution, sewage systems, and industrial applications. Their high strength-to-weight ratio makes them an efficient and cost-effective choice for a wide range of piping needs.

Market Dynamics:

Driver:

Increasing demand in water and wastewater management

The GRP pipes market is significantly driven by the rising need for efficient water and wastewater management solutions. With increasing urbanization and industrialization, there is a heightened focus on sustainable water supply and effective wastewater treatment. GRP pipes, known for their durability, corrosion resistance, and lightweight properties, are increasingly preferred in municipal and industrial projects. Furthermore,

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stringent government regulations on water reuse and recycling, coupled with growing concerns over freshwater scarcity, are compelling both public and private sectors to invest in advanced piping solutions, thereby fueling the demand for GRP pipes.

Restraint:

Need for specialized installation expertise

The installation process demands skilled labor and precise handling to ensure optimal performance and longevity. Additionally, the initial costs associated with training personnel and employing specialized equipment can be substantial, particularly in regions with limited technical infrastructure. Moreover, improper installation may lead to operational failures or increased maintenance costs, deterring potential users from switching to GRP pipes and favoring more familiar traditional materials instead.

Opportunity:

Rising number of desalination projects

As freshwater resources become scarcer, especially in arid and semi-arid regions, governments and private entities are investing heavily in desalination plants. GRP pipes are ideally suited for these projects due to their high resistance to corrosion from saline environments and their ability to withstand high pressures. Furthermore, the long service life and minimal maintenance requirements of GRP pipes make them a cost-effective choice for large-scale desalination infrastructure, further expanding their market potential.

Threat:

Competition from traditional piping materials

A key threat to the GRP pipes market is the persistent competition from traditional piping materials such as steel, ductile iron, and PVC. These materials are well-established, widely available, and supported by a large base of skilled installers. Additionally, in some regions, the lower initial costs and familiarity with these materials can outweigh the long-term benefits offered by GRP pipes. Moreover, fluctuations in raw material prices and the perception of higher upfront costs for GRP solutions may further hinder market penetration, especially in cost-sensitive projects.

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Covid-19 Impact:

The Covid-19 pandemic disrupted the GRP pipes market by causing significant supply chain interruptions and delays in raw material procurement due to global lockdowns. Manufacturing operations were hampered by restrictions and the need to implement new safety protocols, which led to increased operational costs and slower production rates. While demand in essential sectors like water and wastewater management remained relatively stable, other segments, such as construction and infrastructure, experienced project delays or cancellations. Overall, the economic downturn and uncertainty led to postponed investments in new infrastructure, temporarily reducing the demand for GRP pipes.

The pressure pipes segment is expected to be the largest during the forecast period

The pressure pipes segment is expected to account for the largest market share during the forecast period. This dominance is attributed to the extensive use of GRP pressure pipes in water supply, wastewater management, and industrial fluid transportation, where high strength and corrosion resistance are paramount. Furthermore, the ability of GRP pressure pipes to handle high operating pressures with minimal maintenance makes them ideal for municipal and industrial applications. Additionally, their lightweight nature simplifies installation, reducing labor and transportation costs, which further drives their widespread adoption across diverse end-use sectors.

The vinyl ester-based GRP pipes segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the vinyl ester-based GRP pipes segment is predicted to witness the highest growth rate. This is primarily due to the superior chemical resistance and mechanical strength offered by vinyl ester resins, making them suitable for demanding applications such as chemical processing, wastewater treatment, and oil and gas transportation. Moreover, the increasing focus on infrastructure durability and the need for materials that can withstand aggressive environments are propelling the adoption of vinyl ester-based GRP pipes. Additionally, the rising awareness of their long-term performance benefits contributes to the segment's robust growth.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

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share. This regional dominance is driven by rapid industrialization, urban infrastructure development, and significant investments in water and wastewater management across countries such as China and India. Furthermore, favorable government policies, a large base of skilled labor, and the expansion of key industries like chemicals and oil & gas further support market growth. Additionally, the region's focus on sustainable and efficient infrastructure solutions has accelerated the adoption of GRP pipes, reinforcing Asia Pacific's leadership in the global market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. This accelerated growth is underpinned by ongoing infrastructure projects, increasing demand for durable and corrosion-resistant piping solutions, and the expansion of end-use industries such as irrigation, sewage, and industrial processing. Moreover, rising investments in renewable energy and desalination projects, coupled with supportive regulatory frameworks, are fostering a favorable environment for GRP pipe adoption. Additionally, the region's proactive approach to addressing water scarcity and environmental sustainability further propels market expansion at a rapid pace.

Key players in the market

Some of the key players in GRP Pipes Market include Amiblu Holding GmbH, Future Pipe Industries, Saudi Arabian Amiantit Co., National Oilwell Varco (NOV), Flowtite Technology, Hengrun Group Co. Ltd., Composite Pipes Industry, Enduro Composites Inc., Fibrex Corporation, Jindal Steel & Power Ltd., REHAU, Chemical Process Piping Pvt. Ltd. (CPP), Graphite India Limited, Abu Dhabi Pipe Factory, Anabeeb Pipes, Lianyungang Zhongfu Lianzhong Composites Group Co. Ltd., ZCL Composites and Jizhou Zhongyi.

Key Developments:

In March 2025, FPI showcased its sustainable GRP piping solutions at the StocExpo event in Rotterdam and at the SPE Symposium on Non-Metallics in Abu Dhabi, where the company presented advancements in fireproof and geothermal applications for non-metallic piping.

In January 2025, Amiblu invested €4.16 million in its Camarles (Tarragona) plant, creating 70 new jobs and advancing digitalization and circularity projects. The facility is

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now the first GRP pipe factory in Europe to achieve carbon neutrality, having reduced CO? emissions by 72% in four years. Amiblu's GRP pipes are highlighted as being three times less carbon-intensive than traditional materials, with significant advantages in sustainability and lifecycle.

In October 2024, Signed a SAR 89.45 million contract with Rawabet Al Hamroor Co. to supply pipes for the second phase of the National Water Co.'s project in Najran. The contract spans 32 months, with financial impacts expected from Q1 2025.

Product Types Covered:

- Pressure Pipes
- Non-Pressure Pipes

Resin Types Covered:

- Epoxy-Based GRP Pipes
- Polyester-Based GRP Pipes
- Vinyl Ester-Based GRP Pipes
- Other Resin Types

Diameters Covered:

- Small Diameter GRP Pipes
- Medium Diameter GRP Pipes
- Large Diameter GRP Pipes

Manufacturing Processes Covered:

- Filament Winding

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- Centrifugal Casting
- Pultrusion
- Other Manufacturing Processes

End Users Covered:

- Water and Wastewater
- Oil and Gas
- Chemical Processing
- Power Generation
- Construction
- Mining
- Marine and Offshore
- Irrigation
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico

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- Europe
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  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
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  - Chile
  - Rest of South America

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Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

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Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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