

FRP/GRP/GRE Pipes Market Size by Type (GRP, GRE, Others), Glass Fiber Type (E-Glass, S-Glass, Others), Manufacturing Process (Filament Winding, Others), Diameter (<300 mm, 300-1200 mm, >1200 mm), End-Use Industry (Oil & Gas, Chemicals, Sewage Pipes, Irrigation, Others) and Region - Forecast to 2030

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Report description:

The FRP/GRP/GRE Pipes market size was valued at approximately USD 5.14 billion in 2025 and is expected to reach USD 6.72 billion by 2030, growing at a CAGR of 5.5% during the forecast period from 2025 to 2030.

<https://mnmimg.marketsandmarkets.com/Images/frp-pipe-market-img-overview.webp>

"In terms of value, GRE type segment is expected to be the fastest growing market, in terms of value for the forecasted period." The segment of GRE type is projected to grow the fastest in terms of value during the forecast period. This is because GRE pipes boast high mechanical strength, excellent pressure handling capability, and superior resistance to aggressive chemicals, which make them highly suitable for various industrial applications. The applications of GRE pipes include oil and gas production, offshore platforms, petrochemical plants, and desalination facilities where higher performance and reliability are desired. GRE pipes ability to bear high temperatures and corrosive environments replaces metallic piping, thus extending the service life at much lower maintenance costs. Driven by increased worldwide energy development, especially in offshore and deepwater areas, demand for solid and lightweight piping systems accelerates, which boosts the demand for GRE pipes directly. Growing infrastructure investments in industrial processing, water treatment, and chemical handling further reinforce the need for GRE pipes making it the fastest growing market for the forecasted period.

"In terms of value, E-glass segment is expected to be the fastest growing segment of the overall FRP/GRP/GRE market."

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The E-glass market is projected to be the fastest-growing in the glass fiber type segment of the FRP/GRP/GRE market in terms of value, because of its unique combination of properties and cost-effectiveness in a variety of end-use industries. E-glass possesses high electrical insulation resistance, good mechanical strength, corrosion resistance, and ease of handling and processing, which make it a material of choice in various industries such as pipes & tanks, panels, wind turbine blades, construction, and automotive industries. E-glass is produced with a lower cost of production compared to other specialty-grade glass fibers such as S-Glass or R-Glass, making it suitable for widespread usage in massive projects in emerging countries. Moreover, increasing investments in developing infrastructural projects, renewable energy installations, and lightweight composite materials have been increasing the consumption of E-glass composites. Penetration in various industries at a rather affordable cost-performance level is expected to fuel the fast growth of E-glass in the global FRP/GRP/GRE market in terms of value.

"During the forecast period, the FRP/GRP/GRE pipes market in North America region is projected to register the second largest market share in 2024."

The FRP/GRP/GRE pipes market has been studied in North America, Europe, Asia Pacific, the Middle East, Africa, and South America. The North American market for FRP/GRP/GRE pipes is expected to be the second largest market due to large-scale infrastructure renewals, strong industrial demand, and a rising tide of preference for high-performance corrosion-resistant piping systems. The region has an extensive network of aged pipelines across various segments of water supply, wastewater treatment, oil & gas, chemical processing, and power generation, a good number of which were originally installed using steel or concrete several decades ago and presently face partial or full replacement or rehabilitation needs. FRP/GRP/GRE pipes are gaining more appreciation in these uses, mainly due to their ability to maintain good performance against corrosion, a high strength-to-weight ratio, longer service life, and lower lifecycle cost-all fitting for harsh operating environments. In the oil & gas sector, ongoing shale gas development, refinery upgrades, and petrochemical capacity expansions in the United States and Canada are fuelling the demand for GRE and GRP pipes that operate under high pressures and corrosive fluids. The increasing public and private investments in water and wastewater infrastructure coupled with increasing stringency in environmental safety regulations are accelerating the acceptance of advanced composite piping solutions. All these factors taken together reinforce the position of North America as the second largest market for FRP/GRP/GRE pipes in 2024.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

-[]By Company Type- Tier 1- 35%, Tier 2- 25%, and Tier 3- 40%

-[]By Designation- C Level- 35%, Director Level- 30%, and Others- 35%

-[]By Region- North America- 20%, Europe- 25%, Asia Pacific- 25%, South America- 10%, Middle East & Africa (MEA)-20%

The report provides a comprehensive analysis of company profiles:

Prominent companies include NOV (US), Amiantit Company (Saudi Arabia), Future Pipe Industries (UAE), Amiblu Holding GmbH (Austria), Graphite India Limited (India), Abu Dhabi Pipe Factory (UAE), Hengrun Group Co., Ltd. (China), Hill & Smith PLC (UK), GRE COMPOSITES (Thailand), Advanced Piping Solutions (Saudi Arabia), Smithline Composites (UAE), Kuzeyboru (Turkey), Krah Group (Germany), Gruppo Sarplast (Italy) and Lianyungang Zhongfu Lianzhong Composites Group Co., Ltd. (China) among others.

Research Coverage

This research report categorizes the FRP/GRP/GRE Pipes Market Size By Type (GRP, GRE, Others), Glass Fiber Type (E-Glass, S-Glass, Others), Manufacturing Process(Filament Winding, Others), Diameter(<300 mm, 300-1200 mm, >1200 mm), End-Use Industry (Oil & Gas, Chemicals, Sewage Pipes, Irrigation, Others) and Region (North America, Europe, Asia Pacific, the Middle East & Africa, and South America). The scope of the study includes thorough information on the important elements impacting the growth of the FRP/GRP/GRE Pipes market, such as drivers, restraints, challenges, and opportunities. A comprehensive review of the top industry participants has been conducted in order to provide insights into their business overview, solutions, and services; important strategies; contracts, partnerships, and agreements. New product and service launches, mergers and acquisitions, and

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current developments in the FRP/GRP/GRE Pipes sector are all covered. The report includes a competitive study of upcoming startups in the FRP/GRP/GRE Pipes industry ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall FRP/GRP/GRE Pipes market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of key drivers (Rising demand for non-corrosive pipes, Increased demand for oil & gas), restraints (High material cost), opportunities (Increased demand from emerging economies), and challenges (Large scale manufacturing) influencing the growth of the FRP/GRP/GRE Pipes market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the FRP/GRP/GRE Pipes market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the FRP/GRP/GRE Pipes market across varied regions.

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the FRP/GRP/GRE Pipes market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like NOV (US), Amiantit Company (Saudi Arabia), Future Pipe Industries (UAE), Amiblu Holding GmbH (Austria), Graphite India Limited (India), Abu Dhabi Pipe Factory (UAE), Hengrun Group Co., Ltd. (China), Hill & Smith PLC (UK), GRE COMPOSITES (Thailand), Advanced Piping Solutions (Saudi Arabia), Smithline Composites (UAE), among others in the FRP/GRP/GRE Pipes market.

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