

Global Reinforced Thermoplastic Pipe for Hydrogen Transportation Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GC81C4F7266CEN.html>

Date: August 2026

Pages: 108

Price: US\$ 3,480.00 (Single User License)

ID: GC81C4F7266CEN

Abstracts

According to our (Global Info Research) latest study, the global Reinforced Thermoplastic Pipe for Hydrogen Transportation market size was valued at US\$ 4.12 million in 2025 and is forecast to a readjusted size of US\$ 48.92 million by 2032 with a CAGR of 42.3% during review period.

Reinforced Thermoplastic Pipe for Hydrogen Transportation is a spoolable composite pressure-pipe system consisting of a thermoplastic liner serving as the hydrogen sealing and fluid-contact layer, a load-bearing reinforcement layer made from aramid fiber, glass fiber, polyester fiber, carbon fiber, steel cord or hybrid reinforcement, a thermoplastic outer sheath, dedicated end fittings and, where required, a hydrogen-barrier layer. Typical products incorporate a liner, barrier layer, reinforcement layer and external protection layer and are used for gathering, distribution and short- to medium-distance transmission of gaseous pure hydrogen or hydrogen?natural gas blends.

In 2025, the global shipment length of Reinforced Thermoplastic Pipe for Hydrogen Transportation is expected to be approximately 8 kilometers, with an average FOB price of approximately US\$500 per meter and a manufacturing gross margin of approximately 25% to 35%.

Near-term opportunities for hydrogen-service RTP are concentrated in distributed green-hydrogen projects, short- and medium-distance export lines between electrolyzers and industrial users, branch networks within chemical parks and hydrogen hubs, and regional supply pipelines serving hydrogen terminals and refueling stations. Continuous reel or coil delivery reduces field joints, welding, nondestructive inspection, heavy lifting and corrosion-protection requirements.

Competitive differentiation depends on the coordinated performance of the hydrogen barrier or low-permeability liner, the long-term load-bearing reinforcement and the proprietary end-fitting system. Metallic foil barriers offer very low permeation but require careful control during winding, bending and installation. EVOH and multilayer polymer barriers are more compatible with high-volume manufacturing but can be affected by temperature, humidity and aging. Engineering-polymer liners such as PA, PVDF and PPS offer lower intrinsic permeability but involve higher material and processing costs.

The principal constraints remain limited commercial project volume, insufficient long-term hydrogen-permeation data, rapid-gas-decompression damage, liner?reinforcement delamination, cyclic-pressure fatigue and deterioration of fitting seals. RTP is therefore more likely to commercialize first in regional distribution, industrial-park networks and difficult-installation environments than in very large-diameter, cross-regional trunk pipelines.

This report is a detailed and comprehensive analysis for global Reinforced Thermoplastic Pipe for Hydrogen Transportation market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Reinforced Thermoplastic Pipe for Hydrogen Transportation market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Reinforced Thermoplastic Pipe for Hydrogen Transportation market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Reinforced Thermoplastic Pipe for Hydrogen Transportation market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Reinforced Thermoplastic Pipe for Hydrogen Transportation market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/Meter), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Reinforced Thermoplastic Pipe for Hydrogen Transportation

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Reinforced Thermoplastic Pipe for Hydrogen Transportation market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SoluForce B.V., Baker Hughes Company, NOV Inc., Shandong Donghong Pipe Industry Co., Ltd., Lesso, Baoji Tianlian Huitong Composite Materials Co., Ltd., Xinjiang PetroChina Tubular Engineering Co., Ltd., Gongqingcheng Ruitai Pipe Technology Co., Ltd., Jiangsu Zhengdao Marine Technology Co., Ltd., Ningbo OPR Offshore Engineering Equipment Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Reinforced Thermoplastic Pipe for Hydrogen Transportation market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Bonded RTP

Unbonded RTP

Others

Market segment by Rated Maximum Operating Pressure for Hydrogen Service

?4.0 Mpa

4.0 Mpa-6.3 MPa

6.3 Mpa-10.0 MPa

Others

Market segment by Primary Reinforcement Material

Aramid Fiber Reinforcement

Glass Fiber Reinforcement

Polyester Fiber Reinforcement

Steel Cord Reinforcement

Others

Market segment by Application

Onshore Buried Installation

Aboveground and Plant Installation

Shallow-Water and Offshore Static Installation

Others

Major players covered

SoluForce B.V.

Baker Hughes Company

NOV Inc.

Shandong Donghong Pipe Industry Co., Ltd.

Lesso

Baoji Tianlian Huitong Composite Materials Co., Ltd.

Xinjiang PetroChina Tubular Engineering Co., Ltd.

Gongqingcheng Ruitai Pipe Technology Co., Ltd.

Jiangsu Zhengdao Marine Technology Co., Ltd.

Ningbo OPR Offshore Engineering Equipment Co., Ltd.

Hebei Yutong Special Rubber Hose Co., Ltd.

Goldstone Tubos

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Reinforced Thermoplastic Pipe for Hydrogen Transportation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Reinforced Thermoplastic Pipe for Hydrogen Transportation, with price, sales quantity, revenue, and global market share of Reinforced Thermoplastic Pipe for Hydrogen Transportation from 2021 to 2026.

Chapter 3, the Reinforced Thermoplastic Pipe for Hydrogen Transportation competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Reinforced Thermoplastic Pipe for Hydrogen Transportation breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Reinforced Thermoplastic Pipe for Hydrogen Transportation market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Reinforced Thermoplastic Pipe for Hydrogen Transportation.

Chapter 14 and 15, to describe Reinforced Thermoplastic Pipe for Hydrogen Transportation sales channel, distributors, customers, research findings and conclusion.

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