

Vacuum Insulated Pipe Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Vacuum Insulated Pipe Market reached USD 1.2 billion in 2024 and is projected to grow at a CAGR of 5.1% from 2025 to 2034. This growth is fueled by increasing private sector investments in infrastructure development and rapid industrialization, which drives the adoption of VIPs for transporting and distributing liquefied gases. Government initiatives to curb greenhouse gas emissions and the rising focus on alternative energy sources support market expansion.

The standard vacuum insulated pipe segment is expected to generate USD 1 billion by 2034, underpinned by advancements in insulation technologies and materials. Growth in sectors like LNG, hydrogen economy, and emerging applications in medical and aerospace industries is boosting demand. Regulatory compliance and stringent safety standards will remain crucial in shaping market dynamics, while regional trends and strategic collaborations among industry players influence future developments.

The cryogenic vacuum insulated pipe segment is set to grow at a CAGR of 4.5% through 2034, driven by its increasing use in fueling infrastructure for LNG-powered vehicles and rail systems. These pipes play a vital role in maintaining cryogenic conditions for unloading LNG at fueling stations and facilitating efficient connections between storage tanks. As LNG-powered heavy vehicles gain traction in developed economies due to their environmental benefits, the demand for VIPs in fueling networks is expected to rise significantly.

U.S. vacuum insulated pipe market is anticipated to generate USD 300 million by 2034, driven by the expansion of industries such as aerospace, medical, and food processing. These pipes are essential for the safe and efficient handling of cryogenic fluids in these

applications. A growing focus on reducing greenhouse gas emissions and government support for clean energy initiatives are fostering the deployment of VIPs in hydrogen fueling stations and LNG export terminals. Technological advancements in cryogenic systems and increased private sector participation in industrial gas production propel market growth.

With ongoing innovation, expanding applications, and a strong emphasis on environmental sustainability, the vacuum insulated pipe market is poised for steady growth. The industry's evolution will be shaped by advancements in materials, adherence to regulatory requirements, and increasing adoption across diverse sectors globally.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope and definitions
- 1.2 Market estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid
 - 1.4.2.2 Public

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's Analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL Analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & technology landscape

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY PRODUCT, 2021 - 2034 (KM

& USD MILLION)

- 5.1 Key trends
- 5.2 Standard
- 5.3 Customized

**CHAPTER 6 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021 - 2034
(KM & USD MILLION)**

- 6.1 Key trends
- 6.2 Cryogenic
- 6.3 Food & beverage
- 6.4 Aerospace
- 6.5 Electronic manufacturing & testing
- 6.6 Healthcare
- 6.7 Others

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (KM & USD MILLION)

- 7.1 Key trends
- 7.2 North America
 - 7.2.1 U.S.
 - 7.2.2 Canada
 - 7.2.3 Mexico
- 7.3 Europe
 - 7.3.1 Germany
 - 7.3.2 UK
 - 7.3.3 Italy
 - 7.3.4 France
 - 7.3.5 Spain
 - 7.3.6 Poland
 - 7.3.7 Russia
 - 7.3.8 Norway
 - 7.3.9 Netherlands
- 7.4 Asia Pacific
 - 7.4.1 China
 - 7.4.2 India
 - 7.4.3 Japan

- 7.4.4 South Korea
- 7.4.5 Indonesia
- 7.4.6 Thailand
- 7.4.7 Malaysia
- 7.4.8 Philippines
- 7.4.9 Australia
- 7.5 Middle East & Africa
 - 7.5.1 Turkey
 - 7.5.2 Kuwait
 - 7.5.3 Oman
 - 7.5.4 Saudi Arabia
 - 7.5.5 UAE
 - 7.5.6 Qatar
 - 7.5.7 Egypt
 - 7.5.8 Nigeria
 - 7.5.9 South Africa
- 7.6 Latin America
 - 7.6.1 Brazil
 - 7.6.2 Argentina
 - 7.6.3 Peru

CHAPTER 8 COMPANY PROFILES

- 8.1 Ability Engineering Technology, Inc.
- 8.2 Air Liquide Healthcare
- 8.3 BRUGG Pipes
- 8.4 BUTTING CryoTech GmbH
- 8.5 Chart Industries
- 8.6 Cryo Anlagenbau GmbH
- 8.7 Cryofab
- 8.8 Cryogas Equipment Pvt. Ltd.
- 8.9 CRYOSPAIN
- 8.10 Cryoworld
- 8.11 Demaco
- 8.12 Maxcon Industries Pty. Ltd.
- 8.13 PERMA-PIPE International Holdings, Inc.
- 8.14 Shell-n-Tube
- 8.15 SPS Cryogenics B.V.
- 8.16 Thames Cryogenics Ltd

8.17 Vacree Technologies Co., Ltd.

8.18 Vacuum Barrier Corporation

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