

Vapor Pressure Testers Market Forecasts to 2034 – Global Analysis By Product Type (Benchtop, Portable and Other Product Types), By Technology (Isoteniscope, Ebulliometer, Gas chromatography and Other Technologies), End User and By Geography

<https://marketpublishers.com/r/V50135A92EE8EN.html>

Date: April 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: V50135A92EE8EN

Abstracts

According to Statistics MRC, the Global Vapor Pressure Testers Market is accounted for \$82.3 million in 2026 and is expected to reach \$132.2 million by 2034 growing at a CAGR of 6.1% during the forecast period. Vapor pressure testers are instruments used to measure a substance's vapor pressure at a specific temperature, which is crucial in understanding volatility and quality. Employing varied techniques, they quantify the tendency of a substance to vaporize, aiding in material analysis, product formulation and safety assessment. These testers ensure compliance with industry standards and are vital in diverse fields.

According to GlobalData Plc a total of 524 new-build trunk/transmission pipelines projects are expected to start operations from 2022 to 2026. Of these, 376 represent gas pipelines projects, 67 constitute oil pipelines, 65 projects belong to product pipelines, and 16 account for Natural Gas Liquids (NGL) pipelines.

Market Dynamics:

Driver:

Increasing demand for product quality control

The escalating demand for product quality control serves as a significant driver in the vacuum pressure tester market. As industries strive for precision and reliability in their

products, the need to assess vapor pressure becomes pivotal. These testers enable meticulous evaluation of substances' volatility, ensuring consistent quality, meeting regulatory standards, and enhancing product safety. Their role spans across diverse sectors such as chemical manufacturing, pharmaceuticals and petroleum, where maintaining stringent quality control measures is imperative, propelling the adoption of vapor pressure testers for accurate and reliable assessments.

Restraint:

Complexity of operation and maintenance

The complexity of operation and maintenance acts as a significant restraint in the vacuum pressure tester market. These testers often involve intricate mechanisms and sophisticated technology for precise measurements, requiring specialized training for operators. Additionally, adherence to stringent standards demands regular maintenance, which can be resource-intensive and time-consuming. The intricacy of these instruments, coupled with the need for skilled handling and consistent maintenance routines, poses challenges, impacting accessibility and ease of use and hindering their widespread adoption across industries.

Opportunity:

Growing awareness of environmental concerns

As industries emphasize sustainability and regulatory bodies enforce stringent environmental norms, the demand for testers ensuring emissions control and pollution prevention surges. Vapor pressure testers play a pivotal role by enabling precise measurement and control of volatile substances, thereby aiding in the development of eco-friendly products and processes. This growing awareness propels the adoption of advanced testing solutions, fostering innovation and the integration of environmentally conscious practices across diverse industries.

Threat:

Availability of alternative testing methods

Emerging technological innovations and advancements introduce alternative means to measure vapor pressure, potentially challenging the traditional dominance of dedicated testers. Techniques such as computational modeling, spectroscopy and rapid analytical

tools offer quicker, cost-effective and non-invasive alternatives. As these methods gain traction for vapor pressure analysis, the market for conventional testers faces a risk of reduced demand.

Covid-19 Impact:

The COVID-19 pandemic initially hampered the Vapor Pressure Testers market due to supply chain disruptions and reduced demand from industries impacted by lockdowns. However, the growing need for remote monitoring and quality control in various sectors, particularly healthcare and telecommunications fuelled a rebound. Additionally, the rise in demand for high-performance electronics for 5G and beyond applications is further driving market growth.

The isoteniscope segment is expected to be the largest during the forecast period

During the forecast period, the isoteniscope segment is anticipated to dominate the vapor pressure tester market. Renowned for its accuracy and reliability, the isoteniscope method offers precise vapor pressure measurements across various industries. Its robustness in determining substance volatility, particularly in complex or sensitive materials, positions it as the preferred choice for quality control. Industries reliant on meticulous vapor pressure assessments, including pharmaceuticals, chemicals and petroleum, are driving the isoteniscope's prominence.

The chemical segment is expected to have the highest CAGR during the forecast period

The chemical segment is anticipated to exhibit the highest CAGR during the forecast period. This surge is attributed to the critical role of vapor pressure assessment in chemical manufacturing. As the industry focuses on product consistency, safety and regulatory compliance, the adoption of vapor pressure testers becomes integral. These instruments facilitate precise measurement of vapor pressures, ensuring quality control, formulation accuracy and adherence to stringent safety regulations, thereby driving their heightened demand and growth within the chemical sector.

Region with largest share:

Owing to the region's robust industrial infrastructure, stringent regulatory frameworks, and strong focus on technological advancements, North America is anticipated to register the largest market share. It positions itself as a hub for innovative testing solutions. Moreover, the high adoption rate of quality control measures across sectors

like petrochemicals, pharmaceuticals and automotive industries contributes to this dominance. Additionally, the region's emphasis on product safety and compliance, coupled with the continuous demand for precise testing equipment, propels North America to the forefront of the vacuum pressure tester market, fostering its anticipated leadership.

Region with highest CAGR:

The Asia Pacific region is poised for substantial growth in the vacuum pressure tester market due to expanding industrial sectors and stringent quality standards. Rapid industrialization across countries like China and India, coupled with increased investments in refining, chemicals and pharmaceuticals, drives the demand for precise quality control measures. Additionally, the region's burgeoning manufacturing landscape and the emphasis on product reliability position it as a key growth hub for vacuum pressure testers.

Key players in the market

Some of the key players in Vapor Pressure Testers Market include ABB Measurement & Analytics, AD Systems, AMETEK Process Instruments, Analytical Technology and Control Ltd. (ATAC), Anton Paar, ASTM International, Eralytics, Galvanic Applied Sciences Inc., Grabner Instruments, Koehler Instrument Company, Inc., Labtron, Shimadzu Corporation, Span Instruments, Tanaka Scientific Limited and VELP Scientifica.

Key Developments:

In December 2023, ABB Measurement & Analytics Launched the new ACF500 vapor pressure analyzer with enhanced accuracy and faster measurement times.

In September 2023, Baker Hughes, an energy technology company, has announced the launch of its latest product for hydrogen – Druck hydrogen-rated pressure sensors. Designed to offer longer term stability and withstand harsh environments, the hydrogen pressure sensors can be used in a variety of applications including gas turbines, hydrogen production electrolysis and hydrogen filling stations.

Product Types Covered:

Benchtop

Portable

Other Product Types

Technologies Covered:

Isoteniscope

Ebulliometer

Gas chromatography

Membrane

Other Technologies

End Users Covered:

Chemical

Food & Beverage

Oil and Gas

Petrochemical

Pharmaceutical

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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

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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