



VAPOR PRESSURE TESTING

Vapor Pressure Testing

Vapor pressure is a critical volatility characteristic that indicates how readily a liquid evaporates at a given temperature. For petroleum products, vapor pressure measurements directly influence fuel performance, storage safety, environmental compliance, and regulatory classification. The Reid Vapor Pressure (RVP) test is the industry-standard method for measuring the absolute pressure exerted by a mixture of air and evaporated liquid at 37.8 °C (100 °F), and it is a mandatory specification parameter for gasoline, naphtha, LPG, crude oil, and aviation gasoline in virtually every major fuel market.

Torontech's vapor pressure testing portfolio centers on the Reid Vapor Pressure tester — a purpose-built instrument engineered for accuracy, repeatability, and compliance with ASTM D323, ASTM D5191, IP 69, EN 13016, and related international standards. Whether you are running quality checks at a refinery, terminal, or independent inspection laboratory, Torontech provides the right Reid Vapor Pressure tester for your throughput and automation requirements.

APPLICATIONS

Applications

Vapor pressure testing is required throughout the petroleum and chemical industries:

- Gasoline blending & quality control: Every batch of motor gasoline must meet seasonal RVP limits set by environmental agencies to control evaporative emissions.
- Crude oil characterization: Reid Vapor Pressure test data helps determine crude oil handling requirements, storage tank design, and pipeline pressure ratings.
- LPG & NGL specifications: Vapor pressure is the primary quality criterion for liquefied petroleum gas; out-of-spec product can cause dangerous pressure build-up in cylinders and vessels.
- Aviation gasoline: AVGAS specifications require strict vapor pressure control to prevent vapor lock at altitude.

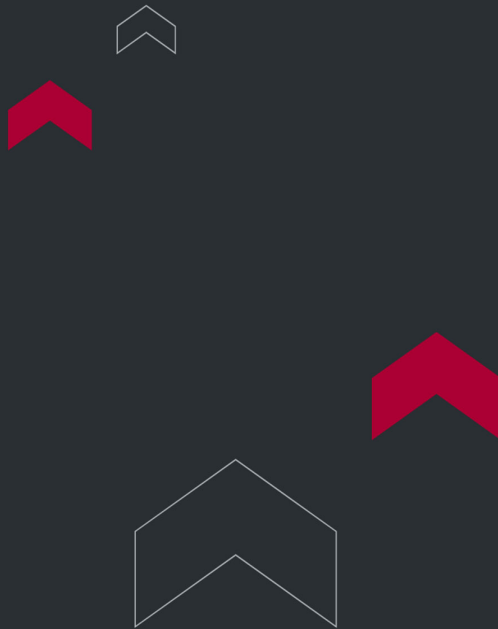
- Naphtha & condensate: Trading contracts and storage terminal acceptance criteria routinely include a Reid Vapor Pressure tester measurement.
- Environmental & regulatory compliance: Government fuel quality programs mandate vapor pressure testing to enforce low-evaporative-emission gasoline standards.
- Research & formulation: New fuel blends and bio-components (ethanol, MTBE) must be characterized for their impact on blend Reid Vapor Pressure before market release.

FEATURES

Why Choose Torontech Vapor Pressure Testing Series for Your Operations?

Torontech's Reid Vapor Pressure tester systems are built to deliver consistent, audit-ready results:

- Precision pressure measurement: High-accuracy digital pressure sensors ensure that every Reid Vapor Pressure test reading meets the tight repeatability requirements of ASTM D323 and ASTM D5191.
- Automated temperature control: Precisely regulated thermostatic baths maintain the critical 37.8 °C equilibrium temperature throughout the test, eliminating manual monitoring errors.
- Rapid cycle times: Optimized heating and equilibration protocols reduce test time without compromising accuracy, supporting high-throughput terminal and refinery operations.
- Wide product compatibility: Our Reid Vapor Pressure tester range accommodates gasoline, crude oil, LPG, AVGAS, and specialty fuel samples within a single platform.
- Standards compliance: Every instrument is designed to satisfy ASTM D323, ASTM D5191, IP 69, EN 13016, and GOST R 52947 as applicable.
- Data integration: Digital result output with RS-232/USB connectivity enables direct export to LIMS and quality management systems.



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