



FLASH POINT TESTING

Flash Point Testing

Flash point testing is one of the most fundamental safety and quality assessments performed on petroleum products, fuels, lubricants, and chemicals. The flash point of a liquid is the lowest temperature at which its vapors can be ignited momentarily by an external ignition source under controlled laboratory conditions. A reliable flash point test is essential for classifying flammable and combustible liquids, ensuring compliance with international transport and storage regulations, and guiding safe handling practices across the entire hydrocarbon value chain.

Torontech offers a comprehensive portfolio of flash point testing instruments covering every major standardized method — closed-cup and open-cup — from manual bench-top units ideal for field laboratories to fully automated systems designed for high-throughput quality control environments. Each instrument is engineered to deliver repeatable, regulation-compliant results in strict accordance with ASTM, IP, ISO, and EN standards.

APPLICATIONS

Applications

Flash point testing is required across a wide range of industries and product types:

- Petroleum refining: Classification of crude-oil fractions, naphtha, and distillates according to flammability class.
- Fuel quality control: Routine flash point test of diesel, jet fuel, kerosene, and aviation gasoline for on-spec verification.
- Lubricant & grease manufacturing: Monitoring base-oil flash point to ensure product safety and thermal stability.
- Chemical & solvent production: Regulatory classification of solvents, adhesives, coatings, and cleaning agents.
- Transportation & storage: Compliance with ADR, IMDG, ICAO, and GHS classification for dangerous goods shipments.
- Quality assurance laboratories: Third-party inspection, certification, and acceptance testing of incoming fuel batches.
- Research & development: Formulation screening and additive evaluation for new fuel and lubricant development.

FEATURES

Why Choose Torontech Flash Point Testing Series for Your Laboratory?

Torontech flash point testing instruments are trusted by refineries, quality inspection agencies, and independent laboratories worldwide. Here is why our Flash Point Testing series stands out:

- Full method coverage: Whether you require a Pensky-Martens closed-cup, Tag closed-cup, Abel closed-cup, or Cleveland open-cup flash point test, Torontech has a dedicated instrument engineered for that specific standard.
- Manual to fully automated: From cost-effective manual units for low-volume laboratories to auto-ignition, auto-detection, and auto-reporting systems for 24/7 production environments.
- High accuracy & repeatability: Precision temperature control, calibrated ignition sources, and sealed test chambers deliver results that consistently meet the repeatability and reproducibility limits specified in ASTM D93, D56, D92, and equivalent standards.
- Intuitive operation: Large touchscreen interfaces, guided test protocols, and one-touch operation minimize operator error and training time.
- Safety-first design: Automatic flame-out protection, over-temperature shutdown, and solvent-resistant seals protect both the operator and the sample.
- Regulatory compliance: All instruments carry relevant certifications and are designed to comply with ASTM, IP, ISO, EN, and national petroleum standards.



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