



TORONTECH

ROTATIONAL & ADVANCED VISCOMETERS



Rotational & Advanced Viscometers

While kinematic viscosity testing measures flow under gravity at a fixed temperature, rotational viscometers provide a more versatile approach to viscosity measurement — particularly for non-Newtonian fluids, complex formulations, and samples requiring viscosity characterization across a range of shear rates and temperatures. Advanced viscometers using rotational measurement principles are indispensable tools in lubricant development, polymer processing, food production, and specialty chemical manufacturing.

Torontech's TorontechVisc™ series of intelligent viscometers — available in TorontechVisc™ P (Programmable), TorontechVisc™ S (Standard), and TorontechVisc™ E (Economy) series configurations — offers a scalable range of advanced viscometer solutions to meet diverse laboratory measurement needs. From routine quality control to advanced rheological profiling, the TorontechVisc™ range provides accurate, reproducible dynamic viscosity measurement across a broad viscosity range.

APPLICATIONS

Application

Torontech's advanced viscometers serve a broad range of industries and applications beyond core petroleum testing:

- Lubricant development and quality control: Dynamic viscosity measurement of engine oils, gear oils, and grease formulations at multiple shear rates and temperatures.
- Polymer and resin characterization: Melt viscosity and solution viscosity profiling for polymer quality control and formulation development.
- Adhesives and sealants: Viscosity consistency verification for production batches of adhesive, sealant, and coating formulations.
- Paint and coatings: Flow behavior and application viscosity characterization for architectural and industrial coatings.

- Food and beverage: Viscosity measurement of sauces, oils, dairy products, and beverage concentrates for process control and texture specification.
- Cosmetics and personal care: Quality control of lotions, creams, shampoos, and other viscous personal care formulations.
- Pharmaceutical and chemical: Viscosity profiling of liquid formulations, solutions, and process fluids.

FEATURES

Why Choose Torontech's TorontechVisc™ Series for Your Advanced Viscometer Needs?

The TorontechVisc™ range of intelligent viscometers is designed to deliver advanced measurement capability with exceptional ease of use:

- Three-Tier Series for Every Need: The TorontechVisc™ P Series (touch-screen, fully programmable advanced viscometers), TorontechVisc™ S Series (standard intelligent viscometers for routine QC), and TorontechVisc™ E Series (economy intelligent viscometers for budget-conscious laboratories) ensure there is a TorontechVisc™ solution for every application and investment level.
- Intelligent Control: TorontechVisc™ series advanced viscometers feature intelligent speed selection, automatic torque monitoring, and data logging — capabilities that elevate them beyond conventional rotational viscometers.
- Wide Viscosity Measurement Range: The TorontechVisc™ series covers a broad dynamic viscosity range through spindle and speed selection, accommodating everything from thin petroleum oils to highly viscous polymer melts and pastes.
- Temperature-Controlled Measurements: Compatible with thermostatic bath accessories, enabling viscosity measurement at controlled temperatures for reproducible, temperature-corrected results.
- Digital Connectivity: Data output, USB connectivity, and software compatibility support modern laboratory data management and LIMS integration requirements.

- Compact and User-Friendly Design: Intuitive operation and compact bench footprint make Torontech's advanced viscometers accessible for operators at all experience levels.



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