



TORONTECH

JUNE, 2026

NEWSLETTER



PRECISION VISCOSITY MEASUREMENT FOR EVERY FLUID AND APPLICATION

Viscosity is one of the **most critical physical properties** influencing product performance, quality, and processability across industries—from foods and coatings to petroleum products and adhesives. Accurate measurement across varying fluid types, temperatures, and shear conditions requires the right instrument.

Torontech's ToronVisc™ Series offers a complete lineup of **rotational viscometers**. From programmable lab benchtop models to portable field instruments, high-temperature systems for molten materials, cone-plate designs for small samples at high shear rates, and the Krebs Stormer for paint and coating QC.

The ToronVisc™ lineup is designed around **Brookfield-style measurement principles**, supports internationally recognized test methods, and integrates seamlessly into modern laboratory data workflows.

How Viscosity Measurement Works?

A rotational viscometer measures viscosity by **driving a spindle through a fluid sample at a controlled speed**. The resistance the fluid exerts on the spindle creates a measurable torque.

Torque is converted to a viscosity value in **mPa·s (millipascal-seconds)** or **cP (centipoise)**. For non-Newtonian fluids, **shear rate** and **shear stress** are also tracked.

Temperature profoundly affects viscosity — most fluids become less viscous as they heat up. Instruments with integrated RTD probes and thermal control ensure that measurements remain comparable and repeatable across test sessions.



Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada
Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA
Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor, Meydan
Road, Nad Al Sheba, Dubai-261440, UAE
Phone: +971 488 19252
Email: me@torontech.com



TORONTECH.com

NEWSLETTER

PRODUCT HIGHLIGHTS

Programmable Digital Coaxial Viscometer

ToronVisc™ 79P

- **Brookfield-style Operation with Advanced Rheological Analysis:** Displays viscosity, torque, shear rate, temperature, and shear stress in real time.
- **Built-in RTD Temperature Probe:** Ensures thermal accuracy and supports automatic dynamic-to-kinematic viscosity conversion without separate equipment.
- **Password-Protected Calibration:** Secures calibration data and settings for GLP/GMP compliance and audit-ready quality management.
- **Gigabit Data Transfer + External Storage:** USB and Ethernet connectivity with optional SNB DV software for data logging, trend analysis, and LIMS integration.



High-Temperature Touchscreen Viscometers

ToronVisc™ T3 & T4

- **All-in-one Intelligent Design:** Integrated heating system, touchscreen controller, and motorized lift in a single compact unit — no separate bath required.
- **Temperature Up to 300°C (T4):** Purpose-built for materials that must be measured in their molten or semi-molten state, including hot-melt adhesives, paraffin waxes, and high polymers.
- **7-inch HD Touchscreen:** Displays viscosity, temperature, torque, and shear rate simultaneously with a rich human-machine interface.
- **Programmable Temperature Ramps:** Test viscosity-vs-temperature profiles automatically in a single run — critical for adhesive application window characterization.



Advanced High-Temperature Viscometers

ToronVisc™ AI250 & AI500

- **Extended Temperature Range:** Supports viscosity testing up to 500°C (AI500) for asphalt, resins, pitch, coal tar, and high-polymer materials.
- **Programmable Temperature Control:** 7-inch touchscreen with real-time monitoring and over-temperature protection.
- **Auto-Positioning Metal Lifter:** Ensures repeatable spindle alignment, simplifies sample loading, and reduces operator variability.
- **USB + Gigabit Ethernet Connectivity:** High-speed data export and optional SNB software for detailed viscosity records and reporting.



💡 Did You Know?



The unit "centipoise" (cP) was named after French physician **Jean Louis Marie Poiseuille**, who studied blood flow in capillaries in the 1840s. Water at 20°C has a viscosity of approximately 1 cP, making it one of the most commonly used benchmarks in viscosity measurement and instrument verification.

NEWSLETTER

Advanced Cone-Plate Viscometer

ToronVisc™ CAP2

- **Cone-and-plate Geometry:** Ensures uniform shear rate across the entire sample — the gold standard for measuring non-Newtonian fluids at defined shear conditions.
- **High Shear Rate Capability:** Ideal for materials like inks, nail polishes, adhesives, and food emulsions that only reveal their true flow behavior at high shear rates.
- **Automated Lift Mechanism:** Ensures precise cone-to-plate gap positioning and minimizes operator error.
- **7-inch Touchscreen, -5°C to 250°C Temperature Control:** Supports both cryogenic and high-temperature fluid characterization in one instrument.



Krebs Stormer Viscometer

ToronVisc™ STM-2T

- **Purpose-built for Paints and Coatings QC:** Measures viscosity directly in Krebs Units (KU) — the industry-standard unit for coating consistency evaluation.
- **Multi-unit Output — KU, gm, and cP:** Single test delivers readings in all three measurement units, matching the reporting requirements of any standard or specification.
- **5-inch Touchscreen with PC-Controlled Lifter:** Motorized sample lifter and intuitive interface streamline high-throughput QC workflows.
- **ASTM D562 Compliant:** Meets the globally recognized standard for Stormer viscometer testing of architectural and industrial coatings



Intelligent Touch Viscometers

ToronVisc™ P Series

- **State-of-the-art Touchscreen Interface:** Intuitive navigation with real-time display of all key viscosity parameters — designed to reduce operator training time.
- **Rheological Analysis Capability:** Supports shear rate and shear stress measurement alongside standard viscosity — suitable for both Newtonian and non-Newtonian fluid characterization.
- **Multi-speed Programmable Testing:** Automate multi-point viscosity profiles across a defined speed ramp for complete flow curve generation.
- **USB and Ethernet Data Export:** Connects directly to LIMS, SPC software, or PC for audit-ready traceability in regulated QC environments.





TORONTECH

JUNE, 2026

NEWSLETTER

Portable Viscometer

ToronVisc™ PDV Series

- **True Portability with Lithium Battery Operation:** Go from lab bench to production floor to field site without needing a power outlet — ideal for mobile QC teams.
- **Microcomputer-controlled Precision:** Delivers accurate and repeatable readings comparable to benchtop instruments in a compact handheld form factor.
- **High-resolution LCD Display:** Clear readout of viscosity and related parameters even in brightly lit industrial environments.
- **Quick-connect Spindle System:** Fast spindle changes in the field minimize downtime between sample types during production monitoring runs.



Viscometer Spindles

Precision-Engineered for ToronVisc™

- **Full Spindle Type Coverage:** LV spindles for thin fluids (oils, solvents, milk); RV spindles for medium-viscosity materials (paints, gels, creams); HA/HB for high-viscosity applications.
- **CAP and SC4 Spindles:** Specialized geometries for cone-plate and high-temperature viscometer configurations — enabling precise shear-rate-controlled measurements.
- **Tight Manufacturing Tolerances:** Engineered for high repeatability and inter-instrument comparability — critical for multi-site QC programs and standards compliance.
- **Broad viscosity coverage:** Spindle selection spans from water-thin solvents to ultra-high-viscosity adhesives, pastes, and molten polymers.



Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada
Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA
Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor, Meydan
Road, Nad Al Sheba, Dubai-261440, UAE
Phone: +971 488 19252
Email: me@torontech.com



TORONTECH.com



TORONTECH

JUNE, 2026

NEWSLETTER



Why Choose Torontech for Your Viscosity Measurement Program

- **Complete Coverage — One Supplier for Every Viscometry Need:** From portable handheld PDV models for field use to high-temperature AI500 units for 500°C melt testing — the ToronVisc™ lineup covers every viscosity range, temperature, and measurement geometry.
- **Brookfield-style Compatibility Across All Models:** Every ToronVisc™ instrument is built to established Brookfield-style measurement principles — ensuring your methods, spindles, and historical data remain transferable.
- **Standards Compliance for Regulated Industries:** Supports widely recognized ASTM and ISO test methods across food, pharmaceutical, coatings, and petroleum applications. Promoting consistency across laboratories and production sites.
- **Modern Interfaces and Connectivity:** Touchscreen displays, USB/Ethernet export, optional LIMS integration, and password-protected calibration deliver the data management features modern labs require.

Ready to Strengthen Your Viscosity Measurement Program?

The ToronVisc™ Series helps laboratories, production QC teams, and research engineers achieve precise, repeatable viscosity measurements — from standard liquid testing to the most demanding high-temperature and rheological applications. **Explore the full lineup here:** <https://www.torontech.com/product/viscometers/>

For expert guidance on selecting the right viscometer configuration: sales@torontech.com

Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada
Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA
Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor, Meydan
Road, Nad Al Sheba, Dubai-261440, UAE
Phone: +971 488 19252
Email: me@torontech.com



TORONTECH.com