



TORONTECH

APPARENT VISCOSITY TESTER FOR COAL WATER SLURRY - TORONVISC™ AVT-CWS



ToronVisc™ AVT-CWS is a precision-engineered apparent viscosity tester - viscometer designed for the accurate measurement of coal water slurry viscosity, in compliance with international standards. Featuring a 16-bit microprocessor, high-resolution stepper motor drive, and a digital backlit LCD interface, this instrument ensures stable, real-time measurements with ease of operation.

An integrated RTD temperature sensor monitors the fluid temperature with $\pm 0.1^{\circ}\text{C}$ accuracy, while automatic torque alerts activate when torque values drop below 10% or exceed 90%, ensuring optimal test conditions. The AVT-CWS viscometer operates within a broad temperature range of 5°C to 120°C and includes RS232 communication for seamless integration with external systems.

APPLICATIONS

Applications

Engineered for industrial and laboratory environments requiring precise control and analysis of coal slurry viscosity, such as:

- Power generation and thermal energy sectors
- Coal chemical and mining industries
- Fuel formulation and optimization
- Research labs analyzing multiphase flow behavior

The ToronVisc™ AVT-CWS Viscometer combines high-level accuracy, durability, and flexibility, making it the go-to solution for viscosity testing in coal water slurry applications.

FEATURES

- Real-time display of viscosity, shear rate, shear stress, temperature, torque, rotational speed, and rotor number
- RS232 bi-directional communication for PC connectivity and data acquisition
- Supports offline measurement programs and customizable testing parameters
- Advanced patch circuit board design with stable signal processing
- PC interface calibration with support for data logging, analysis, and report generation
- Optional software modules available for enhanced automation and data management

TECHNICAL SPECIFICATIONS

Specification	Value
Viscosity Range	100 – 170,000 mPa·s
Shear Rate	1 s ⁻¹ to 180 s ⁻¹
Rotational Speed	1 – 200 RPM
Accuracy	±2% (F.S)
Repeatability	±1% (F.S)
Temperature Range	5°C – 75°C



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