

COMPACT PORTABLE KINEMATICS VISCOMETER



Compact Portable Kinematics Viscometer - ToronPKV™ 350

A Portable Kinematics Viscometer gives fast kinematic viscosity readings on-site, which helps teams confirm lubricant condition without waiting for lab turnaround. Portable Kinematics Viscometer - ToronPKV™ 350 is built compact around a split-cell capillary sample chamber that supports clear oils and dark or contaminated oils, without pretreatment. Results are based on flow time, with total test time scaling with viscosity from seconds to minutes.

Portable Kinematics Viscometer - ToronPKV™ 350 is a high-precision, multi-functional portable kinematic viscosity meter designed for field and plant use. The split-cell capillary design opens for cleaning, which supports frequent sampling with minimal downtime. The measurement is designed to stay stable even when oil color and cleanliness vary, which helps with in-service lubricant checks. ASTM D8092 is listed as the reference standard for method and accuracy.

APPLICATIONS

Compact Portable Kinematics Viscometer - ToronPKV™ 350 Application

- Petrochemical industry: Routine viscosity checks help confirm blend consistency and catch contamination or degradation that shifts viscosity at 40°C or 100°C. Portable testing supports faster decisions during transfers, storage, and process operations.
- Mining and quarrying: Heavy equipment oils often face dust, soot, and harsh duty cycles. On-site viscosity checks help flag lubricant shear, oxidation, or contamination that can accelerate component wear.
- Laboratories: The device supports quick screening or incoming checks when a fast viscosity snapshot is needed. It can also serve as a field tool that complements lab methods such as ASTM D8092 capillary viscometer workflows.
- Marine and shipbuilding industry: Shipboard testing helps crews trend oil conditions and decide when to sample deeper or take corrective action. The design is positioned for on-site use where solvent handling and waste disposal are

difficult.



Standards

- ASTM D8092: Detection method and accuracy for field kinematic viscosity determination using a microchannel-style viscometer approach.

FEATURES

Compact Portable Kinematics Viscometer - ToronPKV™ 350 Key Features

- Split-cell capillary chamber opens for cleaning and routine maintenance, using a simple wipe-down method with a non-abrasive pad.
- Supports transparent, black, and heavily contaminated oil samples without pretreatment, expanding field usability.
- Uses only 60 µL of oil, which helps avoid noticeable lubricant level change during sampling.
- Temperature-controlled testing at 40°C or 100°C with stated control at ±0.1% for stable comparisons.
- Minimal consumables and no solvent transport or waste-liquid discharge needs, designed for on-site work.
- Built-in memory for up to 1000 data sets with USB export in tabular format for reporting and trending.
- Battery-powered operation with a rechargeable battery module, plus DC24V adapter support.

TECHNICAL SPECIFICATIONS

Compact Portable Kinematics Viscometer - ToronPKV™ 350 Technical Specification

Specification	Compact Portable Kinematics Viscometer - ToronPKV™ 350
Standard reference	ASTM D8092

Specification	Compact Portable Kinematics Viscometer - ToronPKV™ 350
Viscosity range	10–350 cSt @ 40°C
Accuracy	$\leq \pm 3\%$ of measured value
Repeatability	RSD $\leq \pm 3\%$ (typical)
Measurement temperature	40°C / 100°C (kinematic viscosity); $\pm 0.1\%$ control
Sample volume	60 μL
Sample cell	Open-close capillary sample cell
Sensor	Through-beam photoelectric sensor
Display	2.8-inch LED; 320 × 240 pixels
Input	4-wire resistive touch screen
Interface	USB
Software	Embedded
Data storage & export	Up to 1000 sets; USB export (tabular)
Battery module	24V; 2600 mA; rechargeable
Power adapter	DC24V
Dimensions (W × L × H)	119 × 201 × 155 mm
Total weight	1.5 kg



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