

MiniVisc 3000

Portable Kinematic Viscometer

ASTM D8092

The MiniVisc 3000 series Portable Kinematic Viscometer (formerly the SpectroVisc Q3000 Series) is the first truly portable, solvent-free, temperature-controlled kinematic viscometers. MiniVisc 3000 Series provides high-accuracy measurements for easy detection of viscosity variations caused by contamination, mix-up and oil degradation. The devices were designed to determine kinematic viscosity at 40C in the field for applications where immediate results are essential for determining the health of critical equipment.

New ASTM D8092 Standard Supports Direct Kinematic Viscosity Measurement.

MiniVisc 3000 portable kinematic viscometer uses a patented split cell design that enables measurement of kinematic viscosity using only a few drops (60µL) of oil. When closed, the center pieces of the split cell form a funnel with 100 micron gap allowing oil to flow down by gravity. Sensors along the funnel are triggered when oil flows by and flow time between two sensors is measured. The kinematic viscosity is then calculated. When opened, the split cell can be easily cleaned with a non-abrasive cleaning pad and ready for next sample. The split cell is controlled at 40C throughout the measurement.

The test time is proportional to viscosity, ranging from a few seconds to several minutes. The cleanliness of oil or color has no impact of the viscosity result.

The MiniVisc units compliment nicely with other portable oil analysis tools. They are all battery operated and require no solvent to clean.



Features & Benefits

Direct kinematic viscosity measurement

A measure of a liquid's flow under the influence of gravity is provided at a constant temperature, so viscosity can be compared and trended with prior readings. Requires no density check, temperature measurement, instrument pre-configuration or calculation.

Split-cell capillary channel

Using a very small sample size; the sampling chamber controls temperature while infrared sensors measure flow and trajectory, delivering immediate results.

Self-contained with high-resolution touch screen, battery and microprocessor

Enables easy operation, in sunlight or low light, drawing minimal power for a 6-hour battery life. Requires no PC.

Small sample size

Small sample size of 60µl (about 4 drops) is easy to obtain without impacting lubricant level. Reduces waste.

