

10 Best Reasons to Automate Your Viscosity Testing Now!

Whether considering the move from manual to automated viscosity testing or simply to a higher level of automation than what you are currently using, there are many compelling benefits associated with automated instrumentation.

1

Automation removes subjectivity from viscosity measurement. The wide, 100-fold automated viscometer tube range [covering the range of 5-7 manual viscometers] eliminates the need to select the appropriate manual viscometer – just walk up and run your sample.

2

Automation reduces operator-to-operator variability. Computer controlled loading and electronic sample timing eliminate filling errors and the impact of operator timing technique on the test data.

3

Automation decreases mathematical errors. Automated viscosity calculation eliminates the human error associated with manual viscosity calculation.

4

Automation lessens operational inefficiency. Unattended sample processing and testing means operators are free to perform other critical laboratory tasks, improving overall lab efficiency.

5

Automation makes happier operators. Fully automated instruments perform the mundane tasks associated with viscosity measurement [such as viscometer washing, sample loading, timing etc.]. Operators have more time for lab activities, such as result analysis or more complex testing, that make better use of their professional skill sets.

6

Automation saves time. Total test cycle times are reduced from the 30+ minutes commonly associated with manual methods to less than half that time.

7

Automation saves calibration costs. Automated calibration of the viscometer eliminates the time and expense associated with manual viscometer calibrations.

8

Automation minimizes consumable usage and cost. Modern automated viscometers require less solvent and smaller sample volumes than manual methods or older automated options. In addition, many feature automated vial washing and drying which permits reuse of sample vials. These features significantly reduce lab consumable purchase costs and disposal fees.

9

Automation improves lab safety. Automated viscometer tubes are washed and dried in place, eliminating the likelihood of injuries from broken glass. Decreased solvent usage nearly eliminates operator exposure to hazardous solvents.

10

Automation offers improved traceability and reporting. Automatic recording of test parameters and results by the instrument software adds improved measurement traceability while built-in LIMS connectivity allows data to be sent anywhere.



In most cases the benefits associated with an automated viscometer completely offset the initial purchase price.