

Determination of Pour Points

with the

Pour Point Tester PPT 45150



Characteristics

- Accurate measurements acc. ASTM D5985
- Portable for -45 °C to +150 °C (-49 °F to +302 °F)
- In lab down to -55 °C/-67 °F
- Very fast cooling/heating by thermoelectrical modules
- Fully automated test procedure
- Repeated measurements
- Stand-alone device or use with PC

Fast and accurate

The Pour Point Tester PPT 45150 by PSL Systemtechnik provides pour point measurement of oils and oil products according to the rotational method ASTM D5985.

The test method permits pour point measurement with highest precision up to 0.1 °C at high repeatability.

Without additional cryostat the PPT covers a temperature range of -45 °C up to +150 °C (-49 °F to +302 °F).

New: Low temperature down to -55°C/-67°F

Our Pour Point Tester is now extendable with a cooling-water re cooler for temperatures down to -55 °C (-67 °F) - a cost-effective alternative to cryostats with the same capacity.

Repeated measurements

Pour point measurements can be repeated up to nine times in succession. We recommend those repeated measurements to obtain statistical significant results and information about the sample's behaviour over time.

Transportable in trolley case

Due to modern thermoelectric technology the PPT only needs tap water and a power supply. Therefore the PPT is excellently suited for operations outside the lab. The Pour Point Tester is equipped with a wide range voltage input so it can be operated all over the world.

Optionally, a trolley-case is available to transport the compact and lightweight Pour Point Tester as carry-on baggage.

Stand-alone device or use with PC

Of course, the PPT can also be used as a full-fledged lab instrument. Space-saving arranged, it can be operated as a stand-alone device or in conjunction with the software *WinPPT* via PC. With only few settings, you can start a fully automated test run.

Up to 10 test configurations can be saved on the instrument in stand-alone mode.



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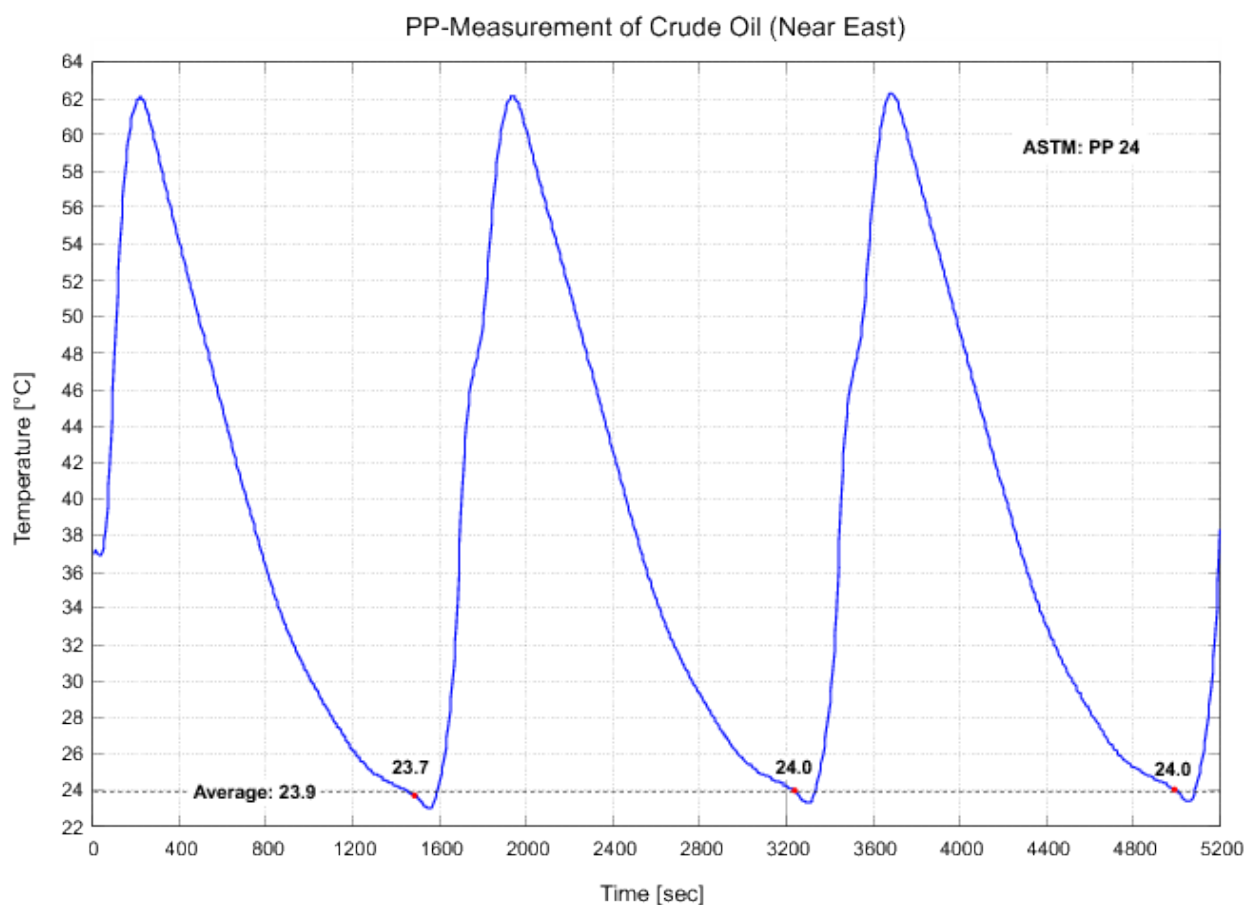
An automated lab instrument

By connecting a PC to the Pour Point Tester and in combination with the PSL software *WinPPT* the instrument you can execute fully automated test runs. An unlimited number of test configurations can be saved and managed.

With *WinPPT* you can comfortably control your test runs, the temperature gradient is

displayed in a temperature/time graph and can be printed for documentation or saved in an Excel-compatible format for further evaluation.

The temperature gradient gives you additional information about the behaviour of the sample. First crystallisation processes are as well observable as strong exothermal reactions.



Measurement example for automatic repeated pour point measurement

Specifications:

Standard:	ASTM D 5985
Temperature range:	-45 °C ... +150 °C (-49 °F ... +302 °F) at tap water 8 °C (46,4 °F), down to -55 °C (-49 °F) with re cooler
Resolution:	0.1 °C
Accuracy:	< ± 0.4 K (± 0.2 K typical)
Cooling water usage:	300 ml/min ... 800 ml/min
Cooling water pressure:	1 bar ... 6 bar (14.5 psi ... 87 psi)
Cooling water temperature:	+3 °C ... +25 °C (+37 °F ... +86 °F), down to -20 °C (-4 °F) with re cooler
Power consumption:	1,700 W
Voltage input:	88 ... 264 V~ (47 ... 63 Hz) - wide range
Weight:	9.5 kg, with trolley-case 14 kg
Dimensions (WxDxH):	26 cm x 38 cm x 16 cm, height with sensor 43 cm