

Filterability of Diesel Fuels by Low-Temperature Flow Test

test method

Determines the filterability of Diesel fuels and Biodiesel blend fuels in some automotive equipment at low temperatures. The Low Temperature Flow Test results are indicative of the low temperature flow performance of the test fuel in some diesel vehicles. The test method is especially useful for the evaluation of fuels containing flow improver additives in a range of +10°C to -30°C.

automatic low temperature filterability test analyzer (LTFT)

Up to (6) 300 ml test vessels are cooled at a specified rate of 1°C/h, and at every °C of cooling, a vacuum of 20 kPa is applied to a filter assembly immersed in the first sample. If the sample recovered in a graduated receiver vessel reaches the 180 ml in 60 sec., the analysis continues to the further 1°C test temperature (passed). When the sample doesn't reach the 180 ml within the 60 sec., the test is failed. The temperature of the last passing result test has to be recorded as minimum LTFT pass temperature.

The instrument is a six place floor model, equipped with a built in cooling system with a CFC free motor compressor for temperatures as low as -45°C for the 1-stage model and -75°C for the 2-stage model. Integrated Vacuum System consisting of a 350 kPa micropump, vacuum stabilizer and electronic control for vacuum regulation of 20 kPa. Fully automatic, controlled by an integrated panel pc with touch screen and a large display. All the parameters and the current status of the analysis are shown in real time.

ordering information

catalog no.	description
KLA-7	Automatic Low Temperature Filterability Tester (LTFT), 6 Position, 1-Stage, 115V 60Hz
KLA-7/2	Automatic Low Temperature Filterability Tester (LTFT), 6 Position, 2-Stage, 115V 60Hz
KLA-7 (220)	Automatic Low Temperature Filterability Tester (LTFT), 6 Position, 1-Stage, 220-240V 50/60Hz
KLA-7/2 (220)	Automatic Low Temperature Filterability Tester (LTFT), 6 Position, 2-Stage, 220-240V 50/60Hz

accessories

KLA-PT100-CAL	Calibration Box and Cables
KLA-DB-KIT	Kit of Connectors and Cables for Cold range



KLA-7 Automatic Low Temperature Filterability Test Analyzer (LTFT)

specifications

Conforms to the Specifications of: ASTM D4539
Temperature Range:

1-Stage Temperature Range: Down to -45°C

2-Stage Temperature Range: Down to -75°C

Resolution: 0.06°C

Accuracy: 0.1°C

Repeatability/Reproducibility:

Meets or exceeds ASTM specifications

Storage Capacity: Up to 60,000 analyses

Interface: USB Port (2)

Electrical Requirements

115V±15%, 60Hz

220V±15%, 50/60Hz

Dimensions wxdxh,in.(cm)

38.5 x 23.5 x 51.25 (98x60x130)

Net Weight: 176.5 lbs (80kg)