

Product Name :
Ductlometer Force High Performance + PC

Product Code :
TEST5176RTLBT-0027



TESTING LAB INSTRUMENTS

Description :

Ductlometer Force - High Performance + PC

Technical Specification :

The ductility test is performed for determining the ductility of bituminous materials by measuring the elongation before breaking when two ends of briquette specimens are pulled apart at a specified speed and temperature.

Water bath

Insulated stainless steel water bath with a heating system located over the entire base surface and a stainless steel cooling coil (for connection to water mains or chiller) distributed over the three side walls assuring temperature uniformity without water turbulence inside the bath. All parts in contact with water are made of stainless steel.

Carriage displacement

Double-screw rods and mobile carriage enable test speeds from 5 to 100 mm/min. The system also permits the fast return of the carriage at the end of the test (500 mm/min) to reduce dead time and increase productivity. The carriage return is automatic, manual intervention is not required.

Temperature control

A closed-loop PID system assures constant temperature from 4 to 30°C, with a water chiller

Stainless steel cooling coil

Plate-type base heaters give better temperature uniformity

The thermoregulation system is based on control of the heater (which increases the temperature of the bath) and the control of the flow rate of the cooling coil by an electro-valve. This important feature assures control of the temperature within strict limits and permits the use of suitable standard water chillers.

Machine Control: PC With dedicated software

Thermostatically controlled water bath temperature: At $25\pm0.20^{\circ}\text{C}$ and from 4 to $30\pm0.20^{\circ}\text{C}$ with water chiller

Temperature and control system: Heater and cooling coil for connection to cold water

Structure: Stainless steel tank

Briquette capacity: 4

Maximum carriage travel: 1500mm

Test speed: Adjustable from 5 to 100mm/min

Elongation measurement: Encoder (optical system)

Specifications:

Accessories

Briquette moulds (x4 quantity)

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Ductility mould plate (x4 quantity)

Water chiller : flow rate of 6 litres per minute

Maximum load and tension measurement: 1200N (4x300N) by load cells (500KN Capacity)

Tension load/elongation graph: Real time graph by pc

Carriage return speed: 500mm/min

20 $^{\circ}\text{C}$ temperature

230v 50/60Hz

High precision strain gauge load cell 0-500N capacity (x4 Quantity)

Test software installed on a PC



Testing lab instruments India