



Ductilometer



ASTM D113
ASTM D6084
AASHTO T51
EN 13398
IP 32 (obs.)

Ductility of Bituminous Materials.

The ductility of a bituminous material is measured by the distance to which it will elongate before breaking when two ends of a briquet specimen of the material are pulled apart at a specified speed and at a specified temperature. Unless otherwise specified, the test shall be made at a temperature of $77 \pm 0.9^\circ\text{F}$ ($25 \pm 0.5^\circ\text{C}$) and with a speed of $5 \text{ cm/min} \pm 5.0\%$. At other temperatures the speed should be specified.

LT/DU-73000-R/M

Ductility of Bituminous Materials Electric and Refrigerated - ASTM D113

- Bench top instrument completely made in stainless-steel and double chamber insulation.
- Internal stainless-steel bath with capacity of approximately 55 liters, equipped with double-insulation and fully immersion stainless-steel heater.
- Temperature controlled by a digital thermoregulator with PID functions that control the temperature trough an A class PT100 sensor in the range from ambient to $+50^\circ\text{C}$, resolution $0,1^\circ\text{C}$ and stability $\pm 0,1^\circ\text{C}$ (with cover).
- Double pump system with gently movement of liquid avoid ripple on sample surface.
- Gas CFC free refrigeration system allow to cool down the bath to $+5^\circ\text{C}$.
- Three-place stainless steel structure with a motion of 1500 mm, transmission of 10 rev. on square-thread traction rod with speed 5 cm/min . by monophasic motor 220 Watt with reduction.
- Stainless-steel / plexiglass cover preventing evaporation and disturbance during the test.
- Lateral drain valve for easily emptying the bath.
- Safety thermostat.
- Included with instrument:
 - 3 x ductility form for ASTM D113;
 - 3 x base plate for form filling.

Dimensions

- Width 190 cm
- Depth 32 cm
- Height 90 cm (with open cover)

Weight

- 70 Kg (empty)

Bath Internal Dimensions

- Width 175 cm
- Depth 25 cm
- Height 16 cm

Range

- $+5^\circ\text{C}$ to $+50^\circ\text{C}$

Power supply

- 230 Vac 50 Hz
- 115 Vac 50 Hz

Max. consumption

- 1200 Watt

Accessories

- 5047+15945: elastic recovery form/mold made in brass for ASTM D6084

Spare Parts

- 5045+15945: ductility form/mold made in brass for ASTM D113
- 5207: base plate for form/mold filling



5207



5047+15945



5045+15945