

**Product Name :**  
Ductility Testing Machine (Refrigerated)

**Product Code :**  
Bitumen0015



**Description :**

Ductility Testing Machine (Refrigerated)

**Technical Specification :**

**Ductility Testing Machine (Refrigerated)**

Ductility Testing Machine (Refrigerated) from Civil Mechanical Laboratory India

With refrigeration system and micro-processor based digital temperature controller.

Ductility is defined as distance in cms to which a standard briquette of bitumen can be stretched before the thread breaks. Ductility Testing Machine (Refrigerated) for Civil Engineering from Laboratory Equipment Manufacturers India - The briquette is stretched at a rate of 50 mm/min.  $\pm$  2.5mm per minute at a temperature of  $27^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ .

The Machine is having built in refrigeration system to work a below ambient temperature up to  $10^{\circ}\text{C}$  in tropical conditions. The Machine will operate at  $27^{\circ}\text{C}$  with control accuracy of  $\pm 0.5^{\circ}\text{C}$ .

The apparatus consists of water bath with a heater, and a circulating pump to maintain uniform water temperature. One half of the briquette moulds is fixed in a fixed plate in the water bath, the other half of the briquette mould is fixed to a carrier which slides over a rotating threaded shaft with a clutch. The motor and gears to rotate the shaft are housed in a cabinet fixed above the other end of the bath. A pointer fixed to the carrier moves over a scale graduated from 0-100 cm x 1mm fixed on the bath with "0" (Zero) of the scale towards the fixed plates side. The rotating shaft has 2 speeds of travel for the bracket, 5 cm/min. and 1 cm/min. selected by a clutch. Water bath inside is of stainless steel with insulation and water drain cock. A heater with is fitted inside the water bath. The Temp. is controlled by dual display Microprocessor based Auto Tuning PID Digital Temp. indicator cum controller. Control switches for motor, stirrer, heater and indicator lamps are fixed at a convenient place on the water bath. Complete with three briquette moulds and one base plate, All supply single phase

## Civil Mechanical India

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