

## Ductility Testing Apparatus

Make: LabTek

Model: SUN-BT-005

Origin: India

Standards: EN 13398; ASTM D113, D6084; AASHTO T51; NF T66, IS 1208-1058

Designed to test three specimens simultaneously. The machine consists of a carriage moving over a lead screw. An electric motor driven reduction gear unit ensures smooth constant speed and continuous operation. The entire assembly is mounted with a stainless steel lined water bath completely encased in metal bound hardwood. It is equipped with an electric pump circulator and heater. The temperature is controlled thermostatically. Two rates of travel i.e. 50 mm/min and 10 mm/min are provided. Suitable for operation on 230 V, 50 Hz, Single Phase, A.C. supply.

Ductility Testing Machine is supplied complete with:

SUN-BT-005A Ductility Mould, with Base Plate 3 Nos.

SUN-BT-005B Thermometer IP 38° C, Range: 23° C to 27° C



## Refrigerated Ductility Testing Machine

Make: LabTek

Model: SUN-BT-006

Origin: India

Standards: EN 13398; ASTM D113, D6084; AASHTO T51; NF T66

Refrigerated Ductility Testing Machine comes with refrigeration system and micro-processor based digital temperature controller. Ductility is defined as distance in cm to which a standard briquette of bitumen can be stretched before the thread breaks. The briquette is stretched at a rate of 50 mm/min.  $\pm 2.5$  mm per minute at a temperature of 27°C  $\pm 0.5$ °C. The machine is having built in refrigeration system to work a below ambient temperature up to 8°C in tropical conditions. The machine will operate at 27°C with control accuracy of  $\pm 0.5$ °C as per the requirement of IS. 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 1cm/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 temperature 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. As per IS 1208.



## Elastic Recovery Mould

Make: LabTek

Model: SUN-BT-007

Origin: India

Standards: EN 13398; ASTM D113, D6084; AASHTO T51; NF T66

A set of three moulds as per IRC-SP-53-2002 made of brass /gunmetal with the shape, dimensions and tolerances. The ends B & B' are known as clips, and the parts A & A' are known as sides of the mould. The dimensions of the mould shall be such that when properly assembled it will form a briquette specimen having the following dimensions.

Total length : 75  $\pm$  0.5 mm

A = 36.5  $\pm$  0.1 MM

B = 30.0  $\pm$  0.1 MM

C = 17.0  $\pm$  0.1 MM

D = 10.0  $\pm$  0.1 MM

E = 10.0  $\pm$  0.1 MM

