

**Product Name :**  
Ductility Testing Apparatus

**Product Code :**  
Soil Testing0055



**Description :**

Ductility Testing Apparatus

**Technical Specification :**

In flexible pavement construction, bitumen binders are used. It is important that bituminous material forms ductile film around the aggregates, which serves as a binder. The development of cracks, therefore, it is important to carry out the ductility tests on bituminous material. 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 50mm/minute ±50mm per minute at a temperature of 25C ± 0.5°C

Specifications:

The apparatus consists of a water bath with a heater, and a circulating pump to maintain uniform water temperature. One half of the briquette mould is fixed on 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 0-10 cm + 1mm fixed on the bath with 10° (zero) of the scale towards the fixed plate side. The rotating shaft has 2 spools of thread for the brackets, switches and 1 control, connected by a clutch. Water bath motor is Stainless Steel, it is an insulated water bath. Water bath is provided with a drain. A heater with thermostat control is fixed inside the water bath. Control switches for motor, heater and indicator lamps are fixed at a convenient place on the water bath, complete with two briquette moulds and one base plate. All made of brass. Operates on 220 volt A.C. single phase.

