

BI-210 A

## SOFTENING POINT TEST SET ( BI-210A )

### ASTM D-36

For determining softening point of asphalt and tar using the ring and ball Method

Type	Parts Name	Specification	Qty
<b>BI-211</b>	<b>Shouldered Ring Assembly</b>	Machined brass, height adjustment	1 Set
<b>BI-212</b>	<b>Standard Ball</b>	Steel ball, 9.52 mm dia.	2 Pcs
<b>BI-213</b>	<b>Flash Support</b>	Mesh wire gauze variable height adjustment	1 Set
<b>BI-214</b>	<b>Support Assembly</b>	Metal, provided with thermometer holder	1 Set
<b>GE-230</b>	<b>Bunsen Burner</b>	Heat resources	1 Pcs
<b>GE-237</b>	<b>Asbestos Wire Gauze</b>	15 cm x 15 cm	1 Pcs
<b>GE-424</b>	<b>Beaker Glass</b>	1000 ml capacity	1 Pcs
<b>GE-646.1</b>	<b>Thermometer</b>	ASTM 15°C, 2 to 86°C	1 Pcs

Dimension (l x w x h): 90 x 30 x 30 cm  
Gross weight: 10kg

Also required, but not part of this set:

- CO-473** Ladle
- GE-222** Butane Field Heater
- GE-363** Mixing Bowl
- GE-700** Stop Watch
- GE-820** Spatula

## LOSS ON HEATING/THIN-FILM TEST ( BI-220A )

### ASTM D-6/D-1754

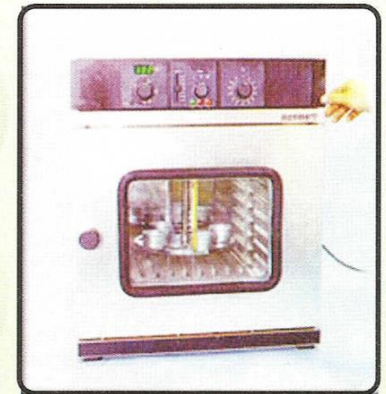
For determining the loss in mass ( exclusive of water) of asphaltic compounds after heating

Type	Parts Name	Specification	Qty
<b>BI-221</b>	<b>Revolving Shelf Oven</b>	Variable temperature oven, cast aluminium rotating shelf, 5-6 RPM, external electromotor drive, 220 V-AC, 1400 Watt.	1 Set
<b>GE-390</b>	<b>Thin Box</b>	55 mm i.d. Approx, aluminium sheet, seamless	12 Pcs
<b>GE-643</b>	<b>Thermometer</b>	ASTM 13°C, 155 to 170°C	1 Pcs

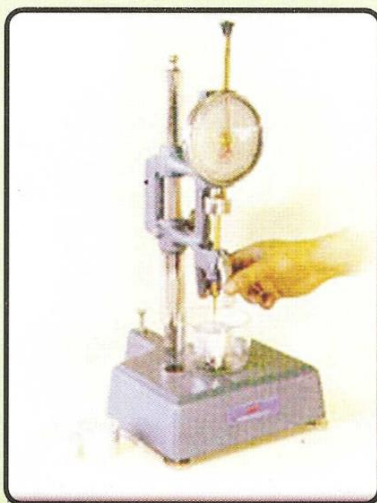
Dimension (l x w x h) : 100 x 100 x 100 cm  
Gross weight : 45 kg

Also required, but not part of this set:

- CO-473** Ladle
- GE-150** Cent O-Gram Balance
- GE-222** Butane Field Heater
- GE-363** Mixing Bowl
- GE-748** Leather Gloves



BI-220 A



BI-230

## LABORATORY PENETRATION TEST SET ( BI-230 )

### ASTM D-5

For determining consistency of bituminous materials

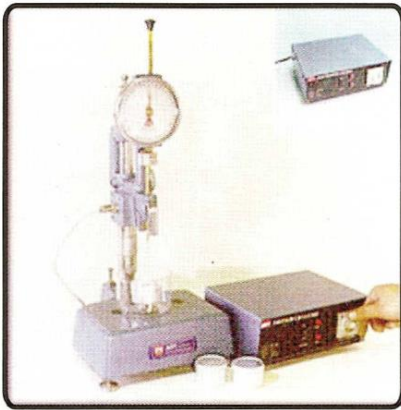
Type	Parts Name	Specification	Qty
<b>BI-231</b>	<b>Penetrometer</b>	Cast aluminium frame, 4 1/2" dial indicator, 400 x 0.1 mm dial, single knob control, weight of needle and plunger : 50 gr	1 Set
<b>BI-232</b>	<b>Penetration Needle</b>	Steel needle with brass shank, 1 mm dia	2 Pcs
<b>BI-233</b>	<b>Transfer Dish</b>	Glass, 100 mm i.d approx	1 Pcs
<b>GE-390</b>	<b>Thin Box</b>	55 mm i.d approx, aluminium Sheet, seamless	2 Pcs

Dimension (l x w x h) : 50 x 50 x 70 cm  
Gross weight : 20kg

Also required, but not part of this set

- GE-222** Butane field heater
- GE-363** Mixing Bowl
- GE-600** Thermometer

**LABORATORY PENETRATION TEST SET ( BI-230A )**



**BI-230 A**

**ASTM D-5**

**AASHTO T-49**

For determining consistency of bituminous materials

Type	Parts Name	Specification	Qty
<b>BI-231A</b>	<b>Penetrometer</b>	Electric control box, 220 V-AC variable timer, ON-OFF and START switch for automatic plunger release cast aluminium frame, 4 1/2" dial indicator, 400 x 0.1 mm dial, knob control manual + electric, weight of needle and plunger:: 50 gr.	1 Set
<b>BI-232</b>	<b>Penetration Needle</b>	Steel needle with brass shank, 1 mm dia	2 Pcs
<b>BI-233</b>	<b>Transfer Dish</b>	Glass, 100 mm i.d approx	1 Pc
<b>GE-390</b>	<b>Thin Box</b>	55 mm i.d approx, aluminium sheet, seamless	2 Pcs

Dimension ( l x w x h ) : 50 x 50 x 70 cm  
Gross weight : 25 kg

**Also required, but not part of this set**

- GE-363** **Mixing Bowl**
- GE-600** **Thermometer**

**DUCTILITY OF BITUMINOUS MATERIALS TEST SET ( BI-250 )**

**ASTM D-113**

**AASHTO T-51**

For determining ductility of formed asphalt/cement or semi solid bitumen by measuring distance of elongation before breaking point when two end of briquet are pulled a part at a specific speed and temperature.

Type	Parts Name	Specification	Qty
<b>BI-251</b>	<b>Ductility Mold</b>	Form sample shape and hold end during test, made of brass, provided with base	1 Set
<b>BI-253</b>	<b>Ductility Machine</b>	Electric 220 V-AC, stainless steel bath, provided with temperature control Pulling speed: 5 cm/min Travel range : 150 cm	1 Set

Dimension ( l x w x h ) : 244 x 80 x 80 cm  
Gross weight : 150 kg

**Also required, but not part of this set**

- BI -254** **Glycerin**
- BI -255** **Talk**
- GE-222** **Butane field heater**
- GE-363** **Mixing Bowl**
- GE-600** **Thermometer**
- GE-820** **Spatula**



**BI-250**

**CENTRIFUGE EXTRACTOR TEST SET ( BI-300 )**

**ASTM D-2172**

**AASHTO T-164**

For determining bitument content in hot mixed paving mixture and pavement sample

Type	Parts Name	Specification	Qty
<b>BI-301</b>	<b>Centrifuge Extractor</b>	Hand operated, aluminium housing removable cover and bowl, 1500 gr capacity	1 Set
<b>BI-303</b>	<b>Filter Paper</b>	Low ash filter paper	1 Box

Dimension ( l x w x h ) : 50x40x60cm  
Gross weight : 40 kg

**Also required, but not part of this set:**

- BI -304** **Solvent (CCL4)**
- GE-152** **Triple beam balance**
- GE-174** **Drying oven**
- GE-363** **Mixing Bowl**
- GE-403** **Graduated cylinder**
- GE-748** **Leather gloves**



**BI-300**