



### Scope:

This apparatus is used for the examination of cut-back asphaltic materials by the distillation test.

### Consists of following parts and accessories:

#### 1. Distillation Flask

- Capacity : 500mL
- Type : Side-arm type having the dimensions shown in Fig. 1 of ASTM D402.

#### 2. Condenser

- Type : Standard glass-jacketed,
- Length : 200 to 300 mm
- Overall tube length :  $450 \pm 10$  mm

#### 3. Electric heater with Digital Temperature controller

- Electric heater with Microprocessor based AUTO-TUNE PID Digital temperature controller cum indicator with PT-100 Sensor.

#### 4. Adopter

- Heavy-wall (1-mm) glass, with reinforced top, having an angle of approximately  $105^\circ$ . The inside diameter at the large end will be approximately 18 mm, and at the small end, not less than 5 mm. The lower surface of the adapter will be on a smooth descending curve from the larger end to the smaller.

#### 5. Shield

- Lined with 3-mm fire proof insulation and fitted with transparent mica windows, of the form and dimensions shown in Fig. 2 of ASTM D402. It is used to protect the flask from air currents and to reduce radiation. The cover (top) will be made in two parts of 6.4-mm (1/4-in) fire proof insulation

#### 6. Flask and shield support

- Two 15 cm<sup>2</sup> sheets of 16-mesh Chromel wire gauze on a tripod or ring.

#### 7. Receiver

- 100 ml graduated glass cylinder as receiver

#### 8. Thermometer

- Glass Thermometer ASTM 8C

#### 9. Thermometer holder

- Silicon rubber stoppers

Note: Specifications are subject to change.