

## **STANDARD TAR VISCOSITY METER**

### **BE 95**

The Standard Tar Viscometer (often abbreviated as STV) is a specialized laboratory instrument used in civil engineering and materials testing to measure the viscosity of cut-back bitumen, road oils, and fluxed bituminous binders. It operates on the principle of efflux time, determining how long it takes for a fixed volume (typically 50 ml) of the sample to flow through a standardized orifice under controlled temperature conditions. This helps assess the flow properties of tars and bitumen's for applications like road construction and paving.

### **FOLLOWING STANDARD**

IS 1206, BS 2000, (Part72)

### **DISCRIPTION**

| Component  | Material/Feature                        | Purpose  |
|------------|---|--|
| Bath       | Stainless steel or chrome-plated copper | Holds temperature-controlled fluid (water/oil) |
| Test Cup   | Brass with orifice (4 mm or 10 mm)      | Contains sample for efflux measurement         |
| Valve      | Ball-ended rod                          | Seals orifice during filling                   |
| Stirrer    | Motorized with clip or glass rod        | Ensures uniform bath temperature               |
| Heater     | 1000W immersion                         | Maintains test temperature (25–60°C)           |
| Controller | Digital thermostat                      | Precise temperature regulation with alarm      |



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