

REDWOOD VISCOSITY METER

BE 96

A Digital Redwood Viscometer is a laboratory instrument used to measure the kinematic viscosity of petroleum products, such as oils, fuels, and bitumen's, by determining the time it takes for a liquid to flow through a standardized orifice under gravity. It adheres to international standards like IP 70 (Institute of Petroleum) and IS 1448, ensuring consistent results for quality control in oil refineries, research labs, and educational institutions. The "digital" aspect refers to modern enhancements like electronic temperature controllers, indicators, and regulators, which provide precise control and readout compared to traditional analog models.

FOLLOWING STANDARD

IS 1448

DISCRIPTION

KEY TYPES AND SPECIFICATIONS

There are two primary adaptations:

- **Redwood No. 1:** For liquids with flow times of 20–2000 seconds (lighter oils).
- **Redwood No. 2:** For liquids with flow times exceeding 2000 seconds (heavier bitumen's or tars).

	BE 95-01	BE 95-02
Model Variant	Redwood No. 1 with Digital Indicator	Redwood No. 2 with Digital Indicator
Flow Time Range	20–2000 seconds	>2000 seconds
Heating Type	Electric with regulator	Electric with rheostat
Key Digital Features	Digital temp controller & display; optional stirrer	Digital thermostat; immersion heater; cooling coil
Typical Use	Light petroleum products like lubricating oils	Heavy tars, bitumen's, road oils

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