

HARDNESS TESTER MASTIC

ASPHALT

BE 102

Mastic asphalt is a dense, impermeable mixture of asphalt binder and fine aggregates, commonly used in flooring, waterproofing, bridge decks, and road surfaces due to its durability and workability. Testing its hardness is essential for quality control, ensuring it meets performance standards for consistency and resistance to deformation under load. The hardness number quantifies the material's resistance to penetration, which is critical for applications where the asphalt must withstand traffic or environmental stresses.

FOLOWING STANDARD

IS 1195-1968

KEY FEATURES OF COMMERCIAL TESTERS

Hardness testers for mastic asphalt are robust, bench top units designed for civil engineering labs. Common specifications include.

FEATURE	DISCRIPTION
LOAD	31.7 kg (fixed weight)
PIN DIAMETER	6.35 mm (flat-ended steel rod)
TEMPERATURE	Control Thermostat-controlled water bath (35°C ± 0.5°C); immersion heater
MEASUREMENT	Dial gauge (0.01 mm resolution); some digital variants available
Construction	Internally insulated cabinet; stainless steel components for durability
ACCESSORIES	Indenter pin, loading weights, sample holder, thermometer

APPLICATIONS AND IMPORTANCE

- **Road Construction:** Ensures mastic asphalt's workability for impermeable layers in highways or runways.
- **Building Materials:** Verifies hardness for flooring to prevent cracking or indentation.
- **Quality Control:** Helps comply with project specs, reducing failures in waterproofing or load-bearing uses.

