

ASPHALT SAYBOLT VISCOMETER



Asphalt Saybolt Viscometer TT-88

Asphalt Saybolt Viscometer TT-88 is crafted in accordance with the ASTM D88 Standard Test Method for Saybolt Viscosity.

Asphalt Saybolt Viscometer TT-88 encompasses empirical procedures for determining the Saybolt Universal or Saybolt Furol Viscosities of petroleum products at specified temperatures ranging from 21 to 99°C (70 to 210°F).

APPLICATIONS

The primary application of the Asphalt Saybolt Viscometer TT-88 is to determine the Saybolt viscosity of asphalt and other petroleum products, in compliance with the ASTM D88 standard. This empirical test measures the time it takes for a fixed volume of the liquid to flow through a calibrated orifice at a specified temperature. The result is a measure of the material's consistency and flow characteristics, which is crucial for quality control and for ensuring the product is suitable for its intended application.

Key Industries

- **Asphalt Production & Petroleum Refining:** This is a classic quality control test for producers of asphalt binders, cutbacks, and other liquid petroleum products. It allows them to grade the material and certify that it meets the required viscosity specifications.
- **Road Construction & Paving:** Paving contractors and hot-mix asphalt (HMA) plant operators use this test to verify the viscosity of the asphalt they receive. This property directly affects how the material will behave during storage, pumping, mixing with aggregate, and application.
- **Roofing Manufacturing:** Producers of asphalt-based roofing materials (like shingles and roll roofing) use viscosity testing to ensure the asphalt has the correct consistency for the coating and saturation processes during manufacturing.

FEATURES

- This instrument comprises a bath, temperature controller, parameters display, and calculation (including calibration coefficient, time, viscosity, and more).
- Utilizing microcomputer technology, this instrument features dual detection lines, allowing simultaneous testing of two samples. It automatically displays parameters and calculates the arithmetic mean value.
- The instrument automatically converts Saybolt viscosity to Engler viscosity and kinematic viscosity. Operators can obtain three viscosity data from a single test, resulting in high work efficiency.

TECHNICAL SPECIFICATIONS

1. Power supply: AC $(220\pm 10\%)$ V, 50Hz. (110V also available)
2. Instrument structure: Desktop.
3. Working mode: Dual lines, simultaneous testing.
4. Receiving flask capacity: (60 ± 0.05) ml.
5. Heating power of bath: 1000W.
6. Working temperature of bath: Room temperature to 240.0°C.
7. Temperature control accuracy: $\pm 0.1^\circ\text{C}$.
8. Timing range: 0.0s to 999.9s.
9. Timing accuracy: ± 0.1 s.
10. Ambient temperature: $\leq 35^\circ\text{C}$.

11. Relative humidity: $\leq 85\%$.

12. Overall dimensions: 360×360×790mm.



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