

SOFTENING POINT OF ASPHALT (RING-AND- BALL)



Softening Point of Asphalt (Ring-and-Ball) TT-36

Softening Point of Asphalt (Ring-and-Ball) TT-36 conforms to the ASTM D36 Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus).

Softening Point of Asphalt (Ring-and-Ball) TT-36 determines the softening point of bitumen within the range of 30 to 160°C (86 to 320°F) using the ring-and-ball method, with the samples immersed in either distilled water (30 to 80°C) or USP glycerin (above 80 to 160°C).

APPLICATIONS

The primary application of the Softening Point of Asphalt (Ring-and-Ball) TT-36 is to determine the **softening point of bitumen (asphalt)**, in compliance with the **ASTM D36** standard. The test measures the temperature at which the asphalt reaches a specific level of softness under controlled conditions. This value is a critical indicator of the material's consistency and its susceptibility to temperature, which is essential for predicting its performance in hot weather and for classifying the asphalt binder grade.

Key Industries

- **Asphalt Production & Petroleum Refining:** This is a fundamental quality control test for asphalt producers. The softening point is a key specification used to grade the binder and ensure it is suitable for its intended climate and application.
- **Road Construction & Paving:** Paving contractors and highway agencies rely on this test to ensure the asphalt binder will resist softening and deforming (rutting) under high summer temperatures and traffic loads.
- **Roofing Manufacturing:** This is a critical industry for this test. Producers of asphalt shingles and waterproofing membranes must control the softening point to ensure their products remain stable and do not flow or soften excessively when exposed to direct sunlight and high roof temperatures.

FEATURES

- Features computer control, photoelectric detection, LCD display, and a micro printer.
- Provides linear heating and even stirring.
- Capable of performing two tests simultaneously.
- Results are displayed on the LCD and can be printed via the printer.
- Temperature measuring range:
 - For sample softening points below 80°C, distilled water is used as the heating medium, with a range of +5 to +80°C.
 - For sample softening points of 80°C or higher, glycerin is used as the heating medium, with a range of +32 to +160°C.

TECHNICAL SPECIFICATIONS

1. Rated voltage: 220V±10%, 50Hz (110V also available)
2. Temperature resolution: 0.1°C
3. Stirrer: Continuously adjustable, 9-speed settings
4. Heating rate: Automatically adjusts to 5±0.5°C/min, 3 minutes after booting
5. Heating power: 600W
6. Computer connection port: RS232
7. Beaker capacity: 1000ml
8. Ambient requirements: Temperature below 35°C, no convection currents
9. Total power: 700W



TORONTECH

Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252
Email: me@torontech.com



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