

DENSITY OF ASPHALT MATERIALS



Density Of Asphalt Materials TT-3289

Density Of Asphalt Materials TT-3289 comprises the following items, covering the determination of the density of semi-solid and solid bituminous materials through weighing in air and in water.

APPLICATIONS

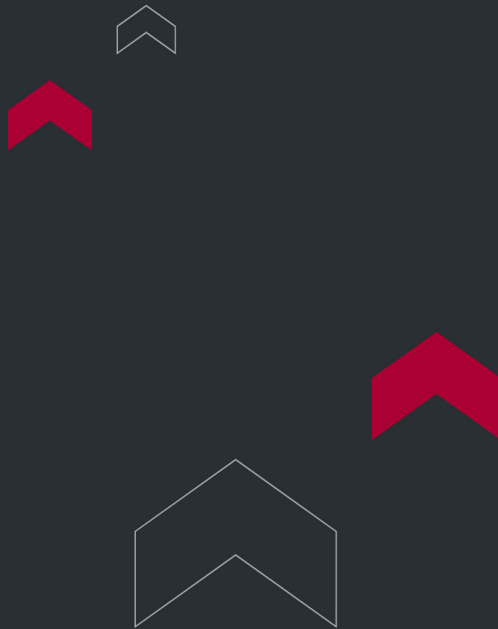
The primary application of the Density Of Asphalt Materials TT-3289 apparatus is to determine the density of semi-solid and solid bituminous materials (asphalt). This is achieved using a fundamental laboratory method that involves weighing a sample in air and then weighing it while submerged in water. This density value is a critical physical property used for quality control, for converting mass to volume (and vice-versa) in commercial transactions, and as a necessary input for asphalt mix design calculations.

Key Industries

- **Asphalt Production & Petroleum Refining:** Producers of asphalt binders must test the density of their product as a key quality control parameter to ensure it meets the required specifications for sale and use.
- **Road Construction & Paving:** The density of the asphalt binder is a critical input for the design of hot-mix asphalt (HMA). Paving contractors and plant operators need this value to calculate the correct proportions of binder and aggregate and to assess the compaction and quality of the final pavement.
- **Civil Engineering & Materials Testing Laboratories:** These labs, including government agencies (like the Department of Transportation) and commercial testing firms, perform this test for quality assurance and to certify that the asphalt materials used in construction projects comply with all engineering specifications.

FEATURES

- Crucible: Nickel, high-form, with a capacity of 30 mL, approximately 43 mm in height by 41 mm in diameter.
- Bath: Constant-temperature, capable of maintaining the test temperature within 60.1°C .
- Thermometer: Calibrated liquid-in-glass, total immersion-type, with a suitable range and graduations at least every 0.1°C , with a maximum scale error of 0.1°C . Commonly used thermometers include the 63C model. Alternatively, any other thermometer device of equal accuracy may be used.
- Balance: Capable of weighing to 0.001 g. It shall be equipped with a pan straddle and a wire basket.
- Basket and Pan Straddle: Capable of holding the crucible in air or in water by suspending it from the balance beam. The basket may be constructed of soft 0.81-mm copper wire or equivalent material. The straddle may be made from approximately 0.81-mm aluminum sheeting formed to provide support for the crucible while allowing free movement of the pan.



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