
HDOT TM 7-00

Standard Test Method for Relative Density of Asphalt Concrete Pavement by Cores

1. Scope

1.1 This test method covers the determination of percent relative density of a lot of asphalt concrete pavement by comparing the core specific gravity and theoretical maximum specific gravity of bituminous mixes.

2. Referenced Documents

AASHTO Standards:

- R11 Using Significant Digits in Test Data to Determine Conformance with Specifications
- T166 Bulk Specific Gravity Of Compacted Bituminous Mixtures Using Saturated Surface-Dry Specimens
- T209 Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- T275 Bulk Specific Gravity Of Compacted Bituminous Mixtures Using Paraffin-Coated Specimens

3. Definition

3.1 Lot - The quantity of asphalt concrete pavement of a specific mix type, material, and thickness that is compacted in the same manner on a production day.

4. Procedure

4.1 Samples - The rate of sampling shall be in accordance with the "Sampling and Testing Guide".

4.2 Rounding off - The method to be used is AASHTO R11.

4.3 Cores - The samples cored from the compacted pavement representing the lot for a production day.

