
Standard Method of Test for

Quantitative Determination of the Percentage of Lime in Asphalt Mixtures

AASHTO Designation: T 362-17 (2021)¹

Technically Revised: 2017

Reviewed but Not Updated: 2021

Editorially Revised: 2021

Technical Subcommittee: 2c, Asphalt–Aggregate Mixtures



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1. SCOPE

- 1.1. This method covers the quantitative determination of the percentage of lime in asphalt mixtures by calculation of the calcium hydroxide, Ca(OH)_2 , recovered from a sample of the mixture. A specimen is obtained through drilling into the asphalt mixture and collecting the drilling dust. The specimen is subjected to an acid filter boil and wash and is analyzed using either Atomic Absorption (AA) Spectrometry or Ion Exchange Chromatography (IEC).
- 1.2. *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*
- 1.3. *The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of R 18 are generally considered capable of competent and objective testing/sampling/inspection/etc. Users of this standard are cautioned that compliance with R 18 alone does not completely assure reliable results. Reliable results depend on many factors; following the suggestions of R 18 or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.*
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2. REFERENCED DOCUMENTS

- 2.1. AASHTO Standards:
- M 231, Weighing Devices Used in the Testing of Materials
 - R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
 - R 67, Sampling Asphalt Mixtures after Compaction (Obtaining Cores)
 - T 308, Determining the Asphalt Binder Content of Asphalt Mixtures by the Ignition Method
- 2.2. ASTM Standard:
- C25, Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime
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3. SIGNIFICANCE AND USE

- 3.1. This test method is useful for determining the amount of lime added to an asphalt mixture.