
Standard Specification for Lime for Asphalt Mixtures

AASHTO Designation: M 303-89 (2023)

Technically Revised: 1989

Reviewed but Not Updated: 2023

Technical Subcommittee: 3a, Cement, Lime, and Concrete Materials



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This specification covers two types of lime to be used for reducing water susceptibility in asphalt mixtures.
- 1.1.1. *Type I*—High calcium-hydrated lime containing maximum magnesium content, calculated as magnesium oxide, of 4 percent by mass. Compliance with chemical composition requirements shall be determined by use of T 219 (see Note 1).
Note 1—Magnesium oxide content may be determined by ASTM C25.
- 1.1.2. *Type II*—Magnesium or dolomitic lime containing magnesium, calculated as magnesium oxide, greater than 4 percent but no more than 36 percent by mass. Compliance with chemical composition requirements shall be determined by use of ASTM C25 (see Note 2).
Note 2—Except that Section 2, “Samples for Analysis,” is excluded.
- 1.2. The values stated in SI units are to be regarded as the standard.
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2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- T 218, Sampling Hydrated Lime
 - T 219, Testing Lime for Chemical Constituents and Particle Sizes
 - T 283, Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage
- 2.2. *ASTM Standards:*
- C25, Standard Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime
 - D1075, Standard Test Method for Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (withdrawn 2019; no replacement)
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3. CHEMICAL LIMITS

- 3.1. Types I and II lime, when sampled and tested by procedures prescribed herein, shall conform to the following requirements. (See Tables 1 and 2.)
- 3.2. Type II lime, when tested in accordance with ASTM C25, shall conform to the requirements listed in Table 2.
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