



Designation: **D312/D312M—16 D312/D312M – 16a**

Standard Specification for Asphalt Used in Roofing¹

This standard is issued under the fixed designation D312/D312M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This specification covers four types of asphalt intended for use in built-up roof construction, construction of some modified bitumen systems, construction of bituminous vapor retarder systems, and for adhering insulation boards used in various types of roof systems. The specification is intended for general classification purposes only, and does not imply restrictions on the slope at which an asphalt must be used.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 *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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D5/D5M Test Method for Penetration of Bituminous Materials](#)

[D36/D36M Test Method for Softening Point of Bitumen \(Ring-and-Ball Apparatus\)](#)

[D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester](#)

[D113 Test Method for Ductility of Bituminous Materials \(Withdrawn 2016\)](#)³

[D140/D140M Practice for Sampling Asphalt Materials](#)

[D1079 Terminology Relating to Roofing and Waterproofing](#)

[D2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene](#)

[D3461 Test Method for Softening Point of Asphalt and Pitch \(Mettler Cup-and-Ball Method\)](#)

[D4402/D4402M Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer](#)

[D7553 Test Method for Solubility of Asphalt Materials in N-Propyl Bromide](#)

3. Materials and Manufacture

3.1 The asphalts shall be prepared from crude petroleum.

4. Physical Requirements

4.1 Asphalts shall be homogeneous and free of water.

4.2 Asphalts of each type shall conform to the physical properties prescribed in [Table 1](#).

5. Sampling and Test Methods

5.1 Sample the material and determine the properties enumerated in this specification in accordance with the following methods:

5.1.1 *Sampling*—Practice [D140/D140M](#).

¹ This specification is under the jurisdiction of ASTM Committee [D08](#) on Roofing and Waterproofing and is the direct responsibility of Subcommittee [D08.03](#) on Surfacing and Bituminous Materials for Membrane Waterproofing and Built-up Roofing.

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² For referenced ASTM standards, visit the ASTM website, [www.astm.org](#), or contact ASTM Customer Service at [service@astm.org](#). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on [www.astm.org](#).