



Designation: D146/D146M – 04 (Reapproved 2020)

Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing¹

This standard is issued under the fixed designation D146/D146M; 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 These test methods cover the sampling and examination of felts or woven fabrics, saturated or impregnated but not coated with asphaltic or coal-tar materials, for use in waterproofing or for the construction of built-up roof coverings.

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 nonconformance 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

¹ These test methods are under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and are the direct responsibility of Subcommittee D08.04 on Felts, Fabrics and Bituminous Sheet Materials.

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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.

D95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
D645/D645M Test Method for Thickness of Paper and Paperboard (Withdrawn 2010)³
D828 Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus
D1079 Terminology Relating to Roofing and Waterproofing
D1682 Test Method for Breaking Load and Elongation of Textile Fabric (Withdrawn 1992)³
D1910 Methods of Test for Construction Characteristics of Woven Fabrics; Replaced by D 3773, D 3774, D 3775, D 3776, D 3882, D 3883 (Withdrawn 1981)³
D4072 Test Method for Toluene-Insoluble (TI) Content of Tar and Pitch
D4312 Test Method for Toluene-Insoluble (TI) Content of Tar and Pitch (Short Method)

3. Sampling

3.1 From each shipment of the specified saturated felt or fabric, select at random a number of rolls equal to one half the cube root of the total number of rolls in the lot. If the specification requires sampling during manufacture, consider the lot to be the planned production quantity and select the rolls at uniformly spaced time intervals throughout the production period. The minimum sample shall consist of five rolls. If the calculated number is fractional, express it as the next highest whole number. For convenience, the following table, showing the number of rolls to be selected from lots of various sizes, is given:

³ The last approved version of this historical standard is referenced on www.astm.org.