



Designation: ~~D2027/D2027M~~ – 13 D2027/D2027M – 19

Standard Specification for Cutback Asphalt (Medium-Curing Type)¹

This standard is issued under the fixed designation D2027/D2027M; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers cutback petroleum asphalts of the medium-curing type for use in the construction and treatment of pavements.

1.2 The values stated in SI units or inch-pounds 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 each other. Combining values from the two systems may result in ~~non-conformance~~nonconformance with the standard.

1.3 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

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

~~D5D5/D5M~~ Test Method for Penetration of Bituminous Materials

D95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation

D113 Test Method for Ductility of Bituminous Asphalt Materials

~~D140D140/D140M~~ Practice for Sampling Asphalt Materials

~~D402D402/D402M~~ Test Method for Distillation of Cutback Asphalt

D2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene

~~D2170D2170/D2170M~~ Test Method for Kinematic Viscosity of Asphalts

~~D2171D2171/D2171M~~ Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer

~~D3143D3143/D3143M~~ Test Method for Flash Point of Cutback Asphalt with Tag Open-Cup Apparatus

D3666 Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

D7553 Test Method for Solubility of Asphalt Materials in N-Propyl Bromide

3. Properties

3.1 The cutback asphalt shall not foam when heated to application temperature and shall conform to the requirements prescribed in [Table 1](#).

4. Test Methods

4.1 The materials shall be sampled in accordance with Practice ~~D140D140/D140M~~, and the properties enumerated in this specification shall be determined in accordance with the following ASTM test methods:

NOTE 1—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 Specification D3666 are generally considered capable of competent and objective testing, sampling, inspection, etc. Users of this standard are cautioned that compliance with Specification D3666 alone does not completely ensure reliable results. Reliable results depend on many factors; following the suggestions of Specification D3666 or some similar

¹ This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.40 on Asphalt Specifications.

Current edition approved Aug. 1, 2013/Dec. 1, 2019. Published September 2013/January 2020. Originally approved in 1963. Last previous edition approved in 2010/2013 as ~~D2027/D2027M~~ – 10: D2027/D2027M – 13. DOI: 10.1520/D2027_D2027M-13.10.1520/D2027_D2027M-19.

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.