



Designation: D2027/D2027M – 13

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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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 with the standard.

2. Referenced Documents

2.1 *ASTM Standards*:²

[D5 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 Materials](#)

[D140 Practice for Sampling Bituminous Materials](#)

[D402 Test Method for Distillation of Cutback Asphalt](#)

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

[D2170 Test Method for Kinematic Viscosity of Asphalts \(Bitumens\)](#)

[D2171 Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer](#)

[D3143 Test Method for Flash Point of Cutback Asphalt with Tag Open-Cup Apparatus](#)

[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 D140](#), and the properties enumerated in this specification shall be determined in accordance with the following ASTM test methods:

4.1.1 *Flash Point (Tag Open-Cup)*—Test Method [D3143](#).

4.1.2 *Viscosity, Kinematic*—Test Method [D2170](#).

4.1.3 *Viscosity, at 60°C [140°F]*—Test Method [D2171](#).

4.1.4 *Distillation*—Test Method [D402](#).

NOTE 1—If a 100-mL graduate does not permit sufficiently close readings to determine conformity to this specification with the desired accuracy, receivers graduated with 0.1-mL divisions shall be used.

4.1.5 *Penetration*—Test Method [D5](#).

4.1.6 *Ductility*—Test Method [D113](#).

4.1.7 *Solubility in Trichloroethylene/N-Propyl Bromide*—Test Methods [D2042/D7553](#).

4.1.8 *Water*—Test Method [D95](#).

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.

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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.