



Designation: D 2026 – 97

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

This standard is issued under the fixed designation D 2026; 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 Department of Defense.

1. Scope

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

2. Referenced Documents

2.1 ASTM Standards:

D 92 Test Method for Flash and Fire Points by Cleveland Open Cup²

D 95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation²

D 113 Test Method for Ductility of Bituminous Materials³

D 140 Practice for Sampling Bituminous Materials³

D 243 Test Method for Residue of Specified Penetration³

D 402 Test Method for Distillation of Cut-Back Asphaltic (Bituminous) Products³

D 2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene³

¹ This specification is under the jurisdiction of ASTM Committee D-4 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.40 on Asphalt Specifications.

Current edition approved Aug. 10, 1997. Published February 1998. Originally published as D2026 – 63 T. Last previous edition D2026 – 72 (1993).

² *Annual Book of ASTM Standards*, Vol 05.01.

³ *Annual Book of ASTM Standards*, Vol 04.03.

D 2170 Test Method for Kinematic Viscosity of Asphalts (Bitumens)³

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 material shall be sampled in accordance with Practice D 140, and the properties enumerated in this specification shall be determined in accordance with the following ASTM test methods:

4.1.1 *Flash Point (Cleveland Open Cup)*—Test Method D 92.

4.1.2 *Viscosity, Kinematic*—Test Method D 2170.

4.1.3 *Distillation*—Test Method D 402.

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 in 0.1-mL divisions shall be used.

4.1.4 *Asphalt Residue*—Test Method D 243.

4.1.5 *Ductility*—Test Method D 113.

4.1.6 *Solubility in Trichloroethylene*—Test Method D 2042.

4.1.7 *Water*—Test Method D 95.

TABLE 1 Requirements for Cutback Asphalt (Slow-Curing Type)

NOTE 1—If the ductility at 25°C (77°F) is less than 100, the material will be acceptable if its ductility at 15°C (59°F) is more than 100.

| Designation | SC-70 | | SC-250 | | SC-800 | | SC-3000 | |
|---|----------|------|----------|-------|----------|-------|-----------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max |
| Kinematic viscosity at 60°C (140°F), mm ² /s | 70 | 140 | 250 | 500 | 800 | 1600 | 3000 | 6000 |
| Flash point (Cleveland open cup), °C (°F) | 66 (150) | ... | 79 (175) | ... | 93 (200) | ... | 107 (225) | ... |
| Distillation test: | | | | | | | | |
| Total distillate to 360°C (680°F), volume % | 10 | 30 | 4 | 20 | 2 | 12 | ... | 5 |
| Solubility in trichloroethylene, % | 99.0 | ... | 99.0 | ... | 99.0 | ... | 99.0 | ... |
| Kinematic viscosity on distillation residue at 60°C (140°F), mm ² /s | 400 | 7000 | 800 | 10000 | 2000 | 16000 | 4000 | 350 |
| Asphalt residue: | | | | | | | | |
| Residue of 100 penetration, % | 50 | ... | 60 | ... | 70 | ... | 80 | ... |
| Ductility of 100 penetration residue at 25°C (77°F), cm | 100 | ... | 100 | ... | 100 | ... | 100 | ... |
| Water, % | ... | 0.5 | ... | 0.5 | ... | 0.5 | ... | 0.5 |

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