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

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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:* [2]

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

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

D 113 Test Method for Ductility of Bituminous Materials

D 140 Practice for Sampling Bituminous Materials

D 243 Test Method for Residue of Specified Penetration

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

D 2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene

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

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.

[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.

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

NOTE—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	10 000	2000	16 000	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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