

Designation: D 2521 – 76 (Reapproved 2002) $^{\epsilon 1}$

Standard Specification for Asphalt Used in Canal, Ditch, and Pond Lining¹

This standard is issued under the fixed designation D 2521; 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.

 ϵ^1 Note—Editorially switched from inch/pound dominant to SI dominant in April 2002.

1. Scope

- 1.1 This specification covers an oxidized petroleum asphalt, which, when applied in a sufficient thickness over a suitable subgrade and covered with a suitable cover material, will provide a satisfactory waterproof membrane for use as a canal, ditch, and pond lining.
- 1.2 The values in SI units are to be regarded as standard. The values in parentheses are for information only.
- 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 and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

- 2.1 ASTM Standards:
- D 5 Test Method for Penetration of Bituminous Materials²
- D 6 Test Method for Loss on Heating of Oil and Asphaltic Compounds³
- D 92 Test Method for Flash and Fire Points by Cleveland Open Cup⁴ ASTM D2521
- D 113 Test Method for Ductility of Bituminous Materials²
- D 140 Practice for Sampling Bituminous Materials²
- D 2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene²

D 2398 Test Method for Softening Point of Bitumen in Ethylene Glycol (Ring and Ball)⁵

3. Physical Requirements

- 3.1 The asphalt shall not foam when heated to 205°C (400°F), and shall conform to the requirements prescribed in Table 1.
- $3.2\,$ At the purchaser's option, phosphorus pentoxide (P_2O_5) may be specified as a catalyst or blowing aid in the preparation of the membrane asphalt.

4. Sampling and Test Methods

- 4.1 Sample the material and determine the properties enumerated in this specification in accordance with the following methods:
 - 4.1.1 Sampling—Practice D 140.
 - 4.1.2 Softening Point—Test Method D 2398.
 - 4.1.3 *Penetration*—Test Method D 5.
 - 4.1.4 Ductility—Test Method D 113.
 - 4.1.5 Flash Point—Test Method D 92.
 - 4.1.6 *Solubility in Trichloroethylene*—Test Method D 2042.
 - 4.1.7 Loss on Heating—Test Method D 6.

5. Inspection

5.1 Inspection of the material shall be agreed upon between the purchaser and the seller as part of the purchase contract.

6. Rejection and Resubmittal

6.1 Failure to conform to any of the requirements prescribed in this specification shall constitute grounds for rejection. In case of rejection, the seller shall have the right to reinspect the rejected material and resubmit the lot after removal of the packages not conforming to the requirements.

Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of

¹ This specification is under the jurisdiction of ASTM Committee D08 on

Subcommittee D08.03 on Surfacing and Bituminous Materials for Membrane Waterproofing and Builtup Roofing.

Current edition approved Sept. 24, 1976. Published December 1976. Originally

published as D2521 – 66 T. Last previous edition D2521 – 71. ² Annual Book of ASTM Standards, Vol 04.03.

³ Annual Book of ASTM Standards, Vol 04.04.

⁴ Annual Book of ASTM Standards, Vol 05.01.

⁵ Discontinued—See 1984 Annual Book of ASTM Standards, Vol 04.04.