



Designation: D6626 – 23

Standard Specification for Performance-Graded Trinidad Lake Modified Asphalt Binder¹

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1. Scope

1.1 This specification covers performance-graded Trinidad Lake modified asphalt binders. Grading designations are related to the LTPPBind Online calculated maximum pavement design temperature and the minimum pavement design temperature.

NOTE 1—For more information on LTPPBind Online, see <https://infopave.fhwa.dot.gov/Tools/LTPPBindOnline> accessed July 10, 2023.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *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

- D8 Terminology Relating to Materials for Roads and Pavements
- D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester
- D95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
- D140/D140M Practice for Sampling Asphalt Materials
- D1754/D1754M Test Method for Effects of Heat and Air on Asphaltic Materials (Thin-Film Oven Test)
- D2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene or Toluene
- D2872 Test Method for Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test)

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.

- D4402/D4402M Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer
- D6521 Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)
- D6648 Test Method for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)
- D6723 Test Method for Determining the Fracture Properties of Asphalt Binder in Direct Tension (DT) (Withdrawn 2021)³
- D7175 Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer
- D7553 Test Method for Solubility of Asphalt Materials in N-Propyl Bromide

3. Terminology

3.1 Definitions:

3.1.1 Definitions for many terms common to asphalt cement are found in Terminology D8.

4. Ordering Information

4.1 When ordering under this specification, include in the purchase order the grade of Trinidad Lake modified asphalt binder required from Table 1 (for example, TLG 52-16 or TLG 64-34).

5. Materials and Manufacture

5.1 Trinidad Lake modified asphalt binder shall be prepared by the addition of Trinidad Lake asphalt modifier to base asphalt produced from the refining of petroleum crude, with or without the inclusion of organic or inorganic modifiers.

5.2 Modifiers may be any suitable form of Trinidad Lake asphalt that may include also organic or inorganic modifiers of suitable manufacture and preparation, and that is dissolved, dispersed, or reacted in asphalt cement to enhance its performance.

5.3 The base asphalt binder shall be homogeneous, free from water and deleterious materials, and shall not foam when heated to 175 °C.

³ The last approved version of this historical standard is referenced on www.astm.org.