
Standard Method of Test for Solubility of Bituminous Materials

AASHTO Designation: T 44-23

Technically Revised: 2023

Technical Subcommittee: 2b, Liquid Asphalt

ASTM Designation: D2042-22



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1. SCOPE

- 1.1. This method covers the determination of the degree of solubility in trichloroethylene or toluene of asphalt materials having little or no mineral matter.
- 1.2. The values stated in SI units are to be regarded as the standard.
- 1.3. *The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of R 18 are generally considered capable of competent and objective testing/sampling/inspection/etc. Users of this standard are cautioned that compliance with R 18 alone does not completely assure reliable results. Reliable results depend on many factors; following the suggestions of R 18 or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.*

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
 - < M 231, Weighing Devices Used in the Testing of Materials
 - < M 339M/M 339, Thermometers Used in the Testing of Construction Materials
 - < R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
- 2.2. *ASTM Standards:*
 - < E1, Standard Specification for ASTM Liquid-in-Glass Thermometers
 - < E177, Standard Practice for Use of the Terms Precision and Bias in ASTM Test Methods
 - < E230/E230M, Standard Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples
 - < E2877, Standard Guide for Digital Contact Thermometers
- 2.3. *International Electrotechnical Commission Standard:*
 - < IEC 60584-1:2013, Thermocouples - Part 1: EMF Specifications and Tolerances
- 2.4. *Federal Standard:*
 - < Fed. Std. No. 29, CFR 1910.1200 OSHA Hazard Communication Standard; see also Permissible Exposure Limits—Annotated Tables, available at <https://www.osha.gov/dsg/annotated-pels/>