
Standard Practice for

**Short-Term Laboratory
Conditioning of Asphalt Mixtures**

AASHTO Designation: R 30-24

Technically Revised: 2024

Editorially Revised: 2024

Technical Subcommittee: 2c, Asphalt–Aggregate Mixtures



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1. SCOPE

- 1.1. This standard practice describes procedures for short-term laboratory conditioning of uncompacted asphalt mixtures for volumetric mixture design and mechanical property testing (both of which simulate the precompaction phase of the construction process). The procedures for short-term mixture conditioning precede the procedure for long-term conditioning according to R 121. Further information on short-term conditioning is given in NCHRP Report 815.
- 1.2. *This standard practice may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety problems 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. *AASHTO Standards:*
- M 339M/M 339, Thermometers Used in the Testing of Construction Materials
 - R 68, Preparation of Asphalt Mixtures by Means of the Marshall Apparatus
 - R 121, Long-Term Laboratory Conditioning of Asphalt Mixtures
 - T 312, Preparing and Determining the Density of Asphalt Mixture Specimens by Means of the Superpave Gyratory Compactor
- 2.2. *ASTM Standards:*
- E1, Standard Specification for ASTM Liquid-in-Glass Thermometers
 - E230/E230M, Standard Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples
- 2.3. *International Electrotechnical Commission Standard:*
- IEC 60584-1: 2013 Thermocouples - Part 1: EMF Specifications and Tolerances
- 2.4. *National Cooperative Highway Research Program:*
- NCHRP. *NCHRP Report 815: Short-Term Conditioning of Asphalt Mixtures*. National Cooperative Highway Research Program, Transportation Research Board, National Research Council, Washington, DC, 2015.