
Standard Practice for Wet Preparation of Disturbed Soil Samples for Test

AASHTO Designation: R 74-22¹

Technically Revised: 2022

Technical Subcommittee: 1a, Soil and Unbound Recycled Materials



**American Association of State Highway and Transportation Officials
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Standard Practice for

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1. SCOPE

- 1.1. This method describes the wet preparation of soil samples, as received from the field, for mechanical analysis and the determination of soil constants.
- 1.2. Method A provides for drying the field samples at a temperature not exceeding 60°C (140°F), making a wet separation on the 0.425-mm (No. 40) sieve and drying to a temperature not exceeding 60°C (140°F). Method B provides that the field sample shall be kept at a moisture content equal to or greater than the natural moisture content. Samples of such soil should be shipped to the laboratory in sealed containers and not allowed to dry out before testing. If no procedure is specified, Method A shall govern.
- 1.3. The values stated in SI units are to be regarded as the standard.
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2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- M 339M/M 339, Thermometers Used in the Testing of Construction Materials
 - R 58, Dry Preparation of Disturbed Soil and Soil-Aggregate Samples for Test
- 2.2. *ASTM Standards:*
- E1, Standard Specification for ASTM Liquid-in-Glass Thermometers
 - E11, Standard Specification for Woven Wire Test Sieve Cloth and Test Sieves
 - 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
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3. APPARATUS

- 3.1. *The apparatus shall consist of that listed in Section 2 of R 58, and the following:*
- 3.1.1. *Drying Apparatus*—A thermostatically controlled drying oven for use at $110 \pm 5^\circ\text{C}$ ($230 \pm 9^\circ\text{F}$) and a suitable device capable of drying samples at a temperature not exceeding 60°C (140°F).
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