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Standard

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ASTM G57-20 

Standard Test Method for Measurement of Soil Resistivity Using the Wenner Four-Electrode Method

Significance and Use

5.1 Measurement of soil resistivity is used for assessment and control of corrosion of buried structures. Soil resistivity is used both for the estimation of expected corrosion rates and for the design of cathodic protection systems. As an essential design parameter for cathodic protection systems, it is important to take as many measurements as necessary so as to get a sufficiently representative characterization of the soil environment to which the entire buried structure will be exposed.

Scope

- 1.1 This test method covers the equipment and procedures for the measurement of soil resistivity, both in situ and for samples removed from the ground, for use in assessment and control of corrosion of buried structures.
- 1.2 The values stated in SI units are to be regarded as standard. The values given in parentheses after SI units are provided for information only and are not considered standard. Soil resistivity values are reported in ohm-centimeter.
- 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*
- 1.4 *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.*

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