



Designation: B 193 – 012

Standard Test Method for Resistivity of Electrical Conductor Materials¹

This standard is issued under the fixed designation B 193; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This test method covers the determination of the electrical resistivity of metallic electrical conductor material. It provides for an accuracy of ± 0.30 % on test specimens having a resistance of 0.00001Ω ($10 \mu\Omega$) or more. Weight resistivity accuracy may be adversely affected by possible inaccuracies in the assumed density of the conductor.

1.2 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

A 111 Specification for Zinc-Coated (Galvanized) “Iron” Telephone and Telegraph Line Wire²

¹ This test method is under the jurisdiction of ASTM Committee B01 on Electrical Conductors and is the direct responsibility of Subcommittee B01.02 on Methods of Test and Sampling Procedure.

Current edition approved Apr. 10, 2004². Published ~~May 2004~~ April 2002. Originally published as B 193 – 44 T. Last previous edition B 193 – 001.