



Designation: B 800 – 9400

Standard Specification for 8000 Series Aluminum Alloy Wire for Electrical Purposes— Annealed and Intermediate Tempers¹

This standard is issued under the fixed designation B 800; 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.

1. Scope

1.1 This specification covers 8000 series aluminum alloys fabricated into round wires in annealed or intermediate tempers suitable for stranding into conductors or for solid single conductors, usually to be insulated.

1.2 The values stated in inch-pound or SI units are to be regarded separately as the standard. The values in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the exception of resistivity. The units given specification.

1.2.1 For density, resistivity and temperature, the values stated in parentheses SI units are for information only. to be regarded as the standard.

NOTE 1—Aluminum alloys capable of meeting the requirements of this specification are listed in Table 1.

NOTE 2—The alloy and temper designations conform to ANSI H35.1. Unified Numbering System alloy designations are listed in Table 1 in accordance with Practice E 527.

NOTE 3—Certain aluminum alloys may be subject to patent rights. U.S. patents numbers are shown in Table 1.

2. Referenced Documents

2.1 “The following documents of the issue in effect on the date of material purchase form a part of this specification to the extent referenced herein.”

2.2 *ASTM Standards:*

B 193 Test Method for Resistivity of Electrical Conductor Materials²

This specification is under the jurisdiction of Committee B-1 B01 on Electrical Conductors and is the direct responsibility of Subcommittee B01.07 on Conductors of Light Metals.

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