



Standard Specification for Aluminum, Aluminum Alloy and Aluminum-Clad Steel Cable Shielding Stock¹

This standard is issued under the fixed designation B 736; 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 selected aluminum, aluminum-alloy and aluminum clad steel cable shielding stock, both uncoated and coated, for applications such as electrostatic or electromagnetic shielding for insulated power, control, instrumentation and communication cables (including coaxial cable).

NOTE 1—See B 694, Specification for Copper, Copper Alloy, and Copper-Clad Stainless Steel Sheet and Strip for Electrical Cable Shielding for related standards for copper-based shielding materials.

1.2 The materials covered are the following:

Type of Material ^A	Coating
Aluminum 1060	none
Aluminum 1100	none
Aluminum 1145	none
Aluminum 1235	none
Alloy 3003	none
Aluminum 1060	polyolefin
Aluminum 1100	polyolefin
Aluminum 1145	polyolefin
Aluminum 1235	polyolefin
Alloy 3003	polyolefin
Aluminum 1060	vinyl resin
Aluminum 1100	vinyl resin
Aluminum 1145	vinyl resin
Aluminum 1235	vinyl resin
Alloy 3003	vinyl resin
Aluminum Clad Steel ^B	none
Aluminum Clad Steel ^B	polyolefin

^A Aluminum designations are in accordance with ANSI H35.1. The equivalent Unified Numbering System alloy designations are those shown preceded by A9, for example, A91100 for Aluminum 1100 in accordance with Practice E 527.

^B Cladding ratio must be specified (see 5.4).

1.3 For acceptance criteria for inclusion of new aluminum and aluminum alloys in this specification, see Annex A2.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 The following precautionary caveat pertains only to the test method portion, Section 12, of this specification. *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 The following documents of the issue in effect on date of material purchase form a part of this specification to the extent referenced herein:

2.2 ASTM Standards:²

A 568/A 568M Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for

B 193 Test Method for Resistivity of Electrical Conductor Materials

B 557 Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products

B 694 Specification for Copper, Copper-Alloy, Copper-Clad Bronze (CCB), Copper-Clad Stainless Steel (CCS), and Copper-Clad Alloy Steel (CAS) Sheet and Strip for Electrical Cable Shielding

D 903 Test Method for Peel or Stripping Strength of Adhesive Bonds

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E 34 Test Methods for Chemical Analysis of Aluminum and Aluminum-Base Alloys

E 55 Practice for Sampling Wrought Nonferrous Metals and Alloys for Determination of Chemical Composition

E 227 Test Method for Optical Emission Spectrometric Analysis of Aluminum and Aluminum Alloys by the Point-to-Plane Technique³

E 527 Practice for Numbering Metals and Alloys (UNS)

E 607 Test Method for Atomic Emission Spectrometric

¹ This specification is under the jurisdiction of ASTM Committee B07 on Light Metals and Alloys and is the direct responsibility of Subcommittee B07.03 on Aluminum Alloy Wrought Products.

Current edition approved May 1, 2006. Published May 2006. Originally approved in 1984. Last previous edition approved in 2000 as B 736-00.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Withdrawn.