



METRIC
Designation: B 557M – 02a

Standard Test Methods of Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products [Metric]¹

This standard is issued under the fixed designation B 557M; 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 These test methods are under the jurisdiction of ASTM Committee B07 on Light Metals and Alloys and are the direct responsibility of Subcommittee B07.05 on Testing. Current edition approved April 10, 2002. Published January 2002³. Originally published as B 557M – 76. Last previous edition B 557M – 94⁰².

1. Scope *

1.1 These test methods cover the tension testing of wrought and cast aluminum- and magnesium-alloy products, excepting aluminum foil;² and are derived from Test Methods E 8M, which cover the tension testing of all metallic materials.

NOTE 1—These metric test methods are the equivalents of those in Test Methods B 557, and are compatible in technical content except for the requirement of longer gage lengths for round specimens.

NOTE 2—Exceptions to the provisions of these test methods may need to be made in individual specifications or test methods for a particular material.

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 The following documents of the issue in effect at the time of reference form a part of these test methods to the extent referenced herein:

2.2 ASTM Standards:

~~B 26/B 26M—Specification for Aluminum-Alloy Sand Castings³~~

~~B 80—Specification for Magnesium-Alloy Sand Castings³~~

~~B 85—Specification for Aluminum-Alloy Die Castings³~~

~~B 108—Specification for Aluminum-Alloy Permanent Mold Castings³~~

~~B 618—Specification for Aluminum-Alloy Investment Castings³~~

E 4 Practices for Force Verification of Testing Machines³

² For test methods of tension testing of aluminum foil, see Test Methods E 345.

³ *Annual Book of ASTM Standards*, Vol-02:02; 03.01.

***A Summary of Changes section appears at the end of this standard.**