



Standard Test Methods for Tension Testing of Metallic Materials¹

This standard is issued under the fixed designation E8/E8M; the number immediately following the designation indicates the year of original adoption or, in the case of revisions, the year of last revision. A number in parentheses indicates the year of last approval. A superscript letter (a) indicates an editorial change since the last revision or approval.

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

1. Scope²

1.1 These test methods cover the tension testing of metallic materials in any form at room temperature, specifically, the methods of determination of yield strength, yield point elongation, tensile strength, elongation, and reduction of area.

1.2 The gauge lengths for most round specimens are required to be 4D for E8 and 5D for E8M. The gauge length is the most significant difference between E8 and E8M test specimens. Test specimens made from powder metallurgy (PM) materials are exempt from this requirement by industry-wide agreement to keep the peening of the material to a specific projected area and density.

1.3 Exceptions to the provisions of these test methods may need to be made in individual specifications or test methods for a particular material. For examples, see Test Methods and Definitions A370 and Test Methods B557, and B557M.

1.4 Room temperature shall be considered to be 10 to 38°C [50 to 100°F] unless otherwise specified.

1.5 The values stated in SI units are to be regarded as separate from inch/pound units. The values stated in each system are not exact equivalents; therefore each system must be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.6 *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.*

¹ These test methods are under the jurisdiction of ASTM Committee E29 on Mechanical Testing and are the direct responsibility of Subcommittee E29.04 on Universal Testing.

Current edition approved Aug. 1, 2018. Published September 2018. Originally approved in 1928. Last previous edition approved 2014 as E8/E8M – 14. DOI: 10.1520/E08-18A.

2. Referenced Documents

2.1 ASTM Standards³

- A350/A350M Specification for Steel Castings, Carbon, Low Alloy, and Stainless Steel, Heavy-Walled for Steam Turbines
- A370 Test Methods and Definitions for Mechanical Testing of Steel Products
- B557 Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
- B557M Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products (Metric)
- E8 Practices for Force Verification of Testing Machines
- E8 Terminology Relating to Methods of Mechanical Testing
- E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
- E83 Practice for Verification and Classification of Extensometer Systems
- E845 Test Methods of Tension Testing of Metallic Foil
- E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method
- E1012 Practice for Verification of Testing Frame and Specimen Alignment Under Tensile and Compressive Axial Force Application
- D1556 Terminology Relating to Rubber
- E1856 Guide for Evaluating Computerized Data Acquisition Systems Used to Acquire Data from Universal Testing Machines
- E2658 Practices for Verification of Speed for Material Testing Machines

3. Terminology

3.1 Definitions of Terms Common to Mechanical Testing—

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

Testing Of Metallic Materials

**American Society for Testing and
Materials. Committee E28 on
Mechanical Testing**



Testing Of Metallic Materials:

Tensile Testing of Metallic Materials. Method of Test at Ambient Temperature British Standards Institute Staff, 2001-09-06 Tensile testing Metals Ambient temperature Temperature Testing conditions Mechanical properties of materials Mechanical testing **Standard Test Method for Tension Testing of Metallic Materials** American Society for Testing and Materials. \$b Committee E-28 on Mechanical Testing, ASTM Subcommittee E28.04 on Uniaxial Testing, 2015

Standard Test Methods for Tension Testing of Metallic Materials [Metric]. American Society for Testing and Materials. Committee E28 on Mechanical Testing, 2004 *Standard Test Methods for Tension Testing of Metallic Materials* ASTM International Committee E-28 on Mechanical Testing, 2015 These test methods cover the tension testing of metallic materials in any form at room temperature specifically the methods of determination of yield strength yield point elongation tensile strength elongation and reduction of area Standard Test Methods for Tension Testing of Metallic Materials American Society for Testing and Materials. Committee E-28 on Mechanical Testing, 2021 These test methods cover the tension testing of metallic materials in any form at room temperature specifically the methods of determination of yield strength yield point elongation tensile strength elongation and reduction of area The gauge lengths for most round specimens are required to be 4D for E8 and 5D for E8M The gauge length is the most significant difference between E8 and E8M test specimens Test specimens made from powder metallurgy P M materials are exempt from this requirement by industrywide agreement to keep the pressing of the material to a specific projected area and density Exceptions to the provisions of these test methods may need to be made in individual specifications or test methods for a particular material For examples see Test Methods and Definitions A370 and Test Methods B557 and B557M Room temperature shall be considered to be 10 to 38 C 50 to 100 F unless otherwise specified The values stated in SI units are to be regarded as separate from inch pound units The values stated in each system are not exact equivalents therefore each system must be used independently of the other Combining values from the two systems may result in non conformance with the standard 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 *Standard Test Methods for Tension Testing of Metallic Materials* American Society for Testing and Materials, 2009 Tensile Testing of Metallic Materials. Method of Test at Elevated Temperatures British Standards Institute Staff, 1992-04-01 Metals Alloys Tensile testing Thermal testing High temperature testing Test specimens Shape Dimensions Testing conditions *Standard Test Methods for Tension Testing of Metallic Materials* , 2009 *Tensile Testing of Metallic Materials* DIN Deutsches Institut für Normung, 1992 Mechanical Testing of Metallic Materials Chinmaya Mohapatra, Er Chinmaya Mohapatra B E, 2018-09-09 Mechanical Testing of Metallic Materials Standard Test Methods for Tension Testing of Metallic Materials , 2011

Testing of Metallic Materials A. V. K. Suryanarayana, 1979 **Testing of Metals for Structures** Federico

Mazzolani,1991-09-19 There is a pressing need for rationalization and standardization of test procedures for metals for use in all types of structure This book brings together the latest international research developments presented at a RILEM workshop held in Naples in May 1990

Standard Test Methods for Notched Bar Impact Testing of Metallic

Materials American Society for Testing and Materials. Committee E-28 on Mechanical Testing,2005 **Metallic**

Materials. Tensile Testing. Method of Test at Ambient Temperature British Standards Institute Staff,2009-08-31

Metals Tensile testing Mechanical testing Ambient temperature Temperature Mechanical properties of materials Test specimens Test equipment Testing conditions Measurement characteristics Yield strength Proof stress Tensile strength Elongation Elongation at fracture

E23-06 Standard Test Methods for Notched Bar Impact Testing of Metallic

Materials American Society for Testing and Materials. Committee E-28 on Mechanical Testing,American Society for testing and Materials,ASTM Subcommittee E28.07 on Impact Testing,2006 These test methods describe notched bar impact testing of metallic materials by the charpy simple beam test and the izod cantilever beam test Metallic Materials ,2020

Materials Testing for the Metal Forming Industry Klaus Pöhlandt,2012-12-06 This book is addressed to both research scientists at universities and technical institutes and to engineers in the metal forming industry It is based upon the author s experience as head of the Materials Science Department of the Institut fUr Umformtechnik at the University of Stuttgart The book deals with materials testing for the special demands of the metal forming industry The general methods of materials testing as far as they are not directly related to metal forming are not considered in detail since many books are available on this subject Emphasis is put on the determination of processing properties of metallic materials in metal forming i e the forming behavior This includes the evaluation of stress strain curves by tensile up setting or torsion tests as well as determining the limits of formability Among these subjects special emphasis has been laid upon recent developments in the field of compression and torsion testing The transferability of test results is discussed Some testing methods for the functional properties of workpieces in the final state after metal forming are described Finally methods of testing tool materials for bulk metal forming are treated Testing methods for surface properties and tribological parameters have not been included The emphasis is put on the deformation of the specimens Problems related to the testing machines and measuring techniques as well as the use of computers are only considered in very few cases deemed necessary Tensile

Testing, 2nd Edition Joseph R. Davis,2004 **Metallic Materials. Tensile Testing. Method of Test at Elevated**

Temperature British Standards Institute Staff,1918-06-05 Mechanical properties of materials Proof stress Tensile strength Testing conditions Yield strength Metals Tensile testing Thermal testing Test specimens Test equipment High temperature testing Measurement characteristics Mechanical testing

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