



Standard Test Methods for Tension Testing of Metallic Materials¹

This standard is issued under the standard designation E8/E8M; 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 approval. A superscripted epsilon (ϵ) 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 3D 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 porosity 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 E557, and E557M.

1.4 Room temperature shall be considered to be 10 to 38°C [20 to 100°F] unless otherwise specified.

1.5 The values stated in SI units are to be regarded as normative; 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 E28 on Mechanical Testing and are the direct responsibility of Subcommittee E28.04 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
- E557 Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
- E557M 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
- E991 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
- E2058 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.

Astm E8 E8m 16a Standard Test Methods For Tension

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



Astm E8 E8m 16a Standard Test Methods For Tension:

E8/E8M -16a ASTM International,2016 *Stress Concentration Factors for ASTM E8/E8M-16a Standard Round*

Specimens for Tension Testing A. A. Kardak,G. B. Sinclair,2020 Occasionally round specimens for tension testing that comply with ASTM standards fail in one of the transition regions between gage and grip sections This occurs because of the stress concentration present in transition regions When this happens it is possible to seek stress relief by increasing fillet radii in these regions The objective of this note is to quantify the relief afforded by increasing radii The approach adopted to this end is finite element analysis that is carefully verified Stress concentration factors are thus accurately determined to three figures for all of the various types of standard round specimens in ASTM E8 E8M 16a Standard Test Methods for Tension Testing of Metallic Materials **Precision Metal Additive Manufacturing** Richard Leach,Simone Carmignato,2020-09-21

Additive manufacturing AM is a fast growing sector with the ability to evoke a revolution in manufacturing due to its almost unlimited design freedom and its capability to produce personalised parts locally and with efficient material use AM companies however still face technological challenges such as limited precision due to shrinkage built in stresses and limited process stability and robustness Moreover often post processing is needed due to high roughness and remaining porosity Qualified trained personnel are also in short supply In recent years there have been dramatic improvements in AM design methods process control post processing material properties and material range However if AM is going to gain a significant market share it must be developed into a true precision manufacturing method The production of precision parts relies on three principles Production is robust i e all sensitive parameters can be controlled Production is predictable for example the shrinkage that occurs is acceptable because it can be predicted and compensated in the design Parts are measurable as without metrology accuracy repeatability and quality assurance cannot be known AM of metals is inherently a high energy process with many sensitive and inter related process parameters making it susceptible to thermal distortions defects and process drift The complete modelling of these processes is beyond current computational power and novel methods are needed to practicably predict performance and inform design In addition metal AM produces highly textured surfaces and complex surface features that stretch the limits of contemporary metrology With so many factors to consider there is a significant shortage of background material on how to inject precision into AM processes Shortage in such material is an important barrier for a wider uptake of advanced manufacturing technologies and a comprehensive book is thus needed This book aims to inform the reader how to improve the precision of metal AM processes by tackling the three principles of robustness predictability and metrology and by developing computer aided engineering methods that empower rather than limit AM design Richard Leach is a professor in metrology at the University of Nottingham and heads up the Manufacturing Metrology Team Prior to this position he was at the National Physical Laboratory from 1990 to 2014 His primary love is instrument building from concept to final installation and his current interests are the dimensional measurement of precision

and additive manufactured structures His research themes include the measurement of surface topography the development of methods for measuring 3D structures the development of methods for controlling large surfaces to high resolution in industrial applications and the traceability of X ray computed tomography He is a leader of several professional societies and a visiting professor at Loughborough University and the Harbin Institute of Technology Simone Carmignato is a professor in manufacturing engineering at the University of Padua His main research activities are in the areas of precision manufacturing dimensional metrology and industrial computed tomography He is the author of books and hundreds of scientific papers and he is an active member of leading technical and scientific societies He has been chairman organiser and keynote speaker for several international conferences and received national and international awards including the Taylor Medal from CIRP the International Academy for Production Engineering

Proceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial Applications Eric Ott,Xingbo Liu,Joel Andersson,Zhongnan Bi,Kevin Bockenstedt,Ian Dempster,Jon Groh,Karl Heck,Paul Jablonski,Max Kaplan,Daisuke Nagahama,Chantal Sudbrack,2018-05-12 This technical meeting will focus on Alloy 718 and Superalloys in this class relative to alloy and process development production product applications trends and the development of advanced modeling tools The symposium provides an opportunity for authors to present technical advancements relative to a broad spectrum of areas while assessing their impact on related fields associated with this critical alloy group There are continuing innovations relative to these alloys as well as novel processing techniques which continue to extend applications in very challenging environments ranging from corrosion resistance in the deep sea to high stressed space applications

Proceedings of the 10th International Symposium on Superalloy 718 and Derivatives Eric A. Ott,Joel Andersson,Chantal Sudbrack,Zhongnan Bi,Kevin Bockenstedt,Ian Dempster,Michael Fahrman,Paul Jablonski,Michael Kirka,Xingbo Liu,Daisuke Nagahama,Tim Smith,Martin Stockinger,Andrew Wessman,2023-04-20 This collection explores all aspects of metallurgical processing materials behavior and microstructural performance for the distinct class of 718 type superalloys and derivatives Technical topics focus on alloy and process development production product applications trends and the development of advanced modeling tools New developments in R D new processing methods 3D printing and other nontraditional applications also are covered

Proceedings of the 11th International Conference on Porous Metals and Metallic Foams (MetFoam 2019) Nihad Dukhan,2020-04-07 The purpose of MetFoam conference series is to provide a state of the art review on lightweight porous metals and metallic foams and a forum for discussions and networking opportunities for scientists working in this field Topics included in this volume include the following Fabrication by conventional and novel methods including additive manufacturing Characterization Properties of compressed and uncompressed foam Design of porous metals metallic foams and lattice structures Fluid heat and mass transfer Porous biomaterials Nanoporous metals Industrial applications of porous metals and metallic foams

High-Productivity Drilling Tools Viktor P. Astakhov,2024-05-03 This completely updated

volume covers tool materials tolerances an inspection of drilling tools requirements of tool drawings with examples and methodologies and procedures of failure analysis It introduces a new line of HP drilling tools called VPA designs and brings it into sharp focus signifying its importance in drilling operations High Productivity Drilling Tools Materials Metrology and Failure Analysis further develops the concept of the metrology of the drilling tools introduced in the first edition For the first time the relevant metrological parameters are clearly defined with tolerance for HPHD with practical examples of step by step inspection measurement using advanced tool measurement microscopes and CNC machines A pros and cons list as a quick and easy decision making tool for the choice of measuring equipment for a particular application is offered along with practical examples of drilling tool drawings to help tool designers cutting tool and manufacturing engineers and users in their everyday activities in the design and selection of HPDT for a particular application An unparalleled presentation of metalworking fluids MWFs a k a coolants is given and covers all the start of the business selection implementation in HPDT and drilling operation monitoring and maintenance A two step procedure for successful implementation of near dry machining NDM or minimum quantity lubrication MQL is presented and a discussion of the wear of the drilling tool its proper assessments and metrics are provided in the evaluation of tool life and quality of machined holes This practical book should be on the shelves of all industrial engineers those working in production and manufacturing process designers tool material designers cutting tool designers and quality specialists Researchers senior undergraduate students and graduate students will also find this book full of very helpful reference information and the source of new ideas and notions in drilling tool development This book is also available as a set Drills High Productivity Drilling Tools 2 Volume Set 9781032203508

Nanostructured Materials for Next-Generation Energy Storage and Conversion Fan Li,Sajid Bashir,Jingbo Louise Liu,2018-04-17 The energy crisis and pollution have posed significant risks to the environment transportation and economy over the last century Thus green energy becomes one of the critical global technologies and the use of nanomaterials in these technologies is an important and active research area This book series presents the progress and opportunities in green energy sustainability Developments in nanoscaled electrocatalysts solid oxide and proton exchange membrane fuel cells lithium ion batteries and photovoltaic techniques comprise the area of energy storage and conversion Developments in carbon dioxide CO₂ capture and hydrogen H₂ storage using tunable structured materials are discussed Design and characterization of new nanoscaled materials with controllable particle size structure shape porosity and band gap to enhance next generation energy systems are also included The technical topics covered in this series are metal organic frameworks nanoparticles nanocomposites proton exchange membrane fuel cell catalysts solid oxide fuel cell electrode design trapping of carbon dioxide and hydrogen gas storage *Introduction to Mechanical Engineering* J. Paulo Davim,2018-04-28 This textbook fosters information exchange and discussion on all aspects of introductory matters of modern mechanical engineering from a number of perspectives including mechanical engineering as a profession materials

and manufacturing processes machining and machine tools tribology and surface engineering solid mechanics applied and computational mechanics mechanical design mechatronics and robotics fluid mechanics and heat transfer renewable energies biomechanics nanoengineering and nanomechanics At the end of each chapter a list of 10 questions and answers is provided

ASTM E8/E8M-21 American Society for Testing and Materials, 2021 Description del editor Significance and Use 4 1 Tension tests provide information on the strength and ductility of materials under uniaxial tensile stresses This information may be useful in comparisons of materials alloy development quality control and design under certain circumstances 4 2 The results of tension tests of specimens machined to standardized dimensions from selected portions of a part or material may not totally represent the strength and ductility properties of the entire end product or its in service behavior in different environments 4 3 These test methods are considered satisfactory for acceptance testing of commercial shipments The test methods have been used extensively in the trade for this purpose Scope 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 P M materials are exempt from this requirement by industry wide agreement to keep the pressing 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 health and environmental practices and determine the applicability of regulatory limitations prior to use 1 7 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade TBT Committee AENOR

Current Advances in Materials Applications Omar Dahham, Nik Noriman Zulkepli, 2020-07-14 Special topic volume with invited peer reviewed papers only

Standard Test Methods for Tension Testing of Metallic Materials American Society for Testing and Materials. 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

ASTM E8/E8M - 09 Standard Test Methods for Tension Testing of Metallic Materials ASTM International,2009

ASTM E8/E8M - 11 Standard Test Methods for Tension Testing of Metallic Materials ,2012

ASTM E8-E8M - 24 ,2024

Standard Test Methods for Tension Testing of Metallic Materials, ASTM E8 ASTM International,

Standard Test Methods for Tension Testing of Metallic Materials American Society for Testing and Materials,2009

Standard Test Methods for Tension Testing of Metallic Materials ,2011

Standard Test Methods for Tension Testing of Metallic Materials ,2013 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

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Kinetic and Potential Energy Worksheet KEY $g=9.8$ Calculate it. 21. Determine the kinetic energy of a 1000-kg roller coaster car that is moving with a speed of 20.0 m/s. 22. KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec? $KE = \frac{1}{2} m v^2$ $\frac{1}{2} (1 \text{ kg}) \dots$ Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity squared Potential and Kinetic Energy Worksheet. Kinetic Energy (KE) = $\frac{1}{2}$ mass times velocity squared. $KE = \frac{1}{2} m v^2$. Potential Energy (PE) = mass times the acceleration ... Kinetic and potential energy worksheet answer key o myaiu kinetic and potential energy worksheet classify the following as type of potential energy or kinetic energy (use the letters or bicyclist pedaling up ... Kinetic and Potential Energy Worksheet Walkthrough - YouTube kinetic and potential energy worksheet Flashcards A. How much kinetic energy does the ball have? B. How much potential energy does the ball have when it reaches the top of the ascent? KINETIC AND POTENTIAL ENERGY WORKSHEET Answer the following: a. What is the kinetic energy of a 1-kilogram ball is thrown into the air with an initial velocity of 30 m/sec? Kinetic vs Potential Energy Practice KEY Page 1. Scanned by CamScanner. Page 2. Scanned by CamScanner.

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