

FIG. 3 Adjustable Bearing Block for Compression Testing

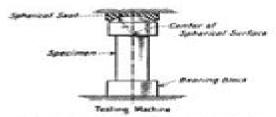


FIG. 4 Spherical-Seated Bearing Block

and when applicable, one or more of the following; the alignment device, the jig and the strain-measurement system, shall be qualified as follows:

6.6.1 Conduct tests to establish the elastic modulus or five replicate specimens of 2024-T3 aluminum alloy sheet or 2024-T4 aluminum alloy bur in accordance with Test Method E 111. These qualification specimens shall be machined from sheet or bur in the location specified in Methods B 557. The thickness of the sheet or diameter of the bur may be machined to the desired thickness or diameter. It is essential that the extensometer be properly seated on the specimens when this test is performed. When the qualification specimens each provide a modulus value of 10.7 × 10° psi (73.8 GPa) ±5 %, the apparatus qualifies.

6.6.2 The qualification procedure shall be performed using the thinnest rectangular specimen or smallest diameter round specimen to be tested in the apparatus.

#### 7. Test Specimens

7.1 Specimens in Solid Cylindrical Form—It is recommended that, where feasible, compression test specimens be in the form of solid circular cylinders. Three forms of solid cylindrical test specimens for metallic materials are recognized, and designated as short, medium-length, and long (Note 4). Suggested dimensions for solid compression test specimens for general use are given in Table 2.

Note: 4—Short specimens typically are used for compression tests of such materials as bearing metals, which in service are used in the form of

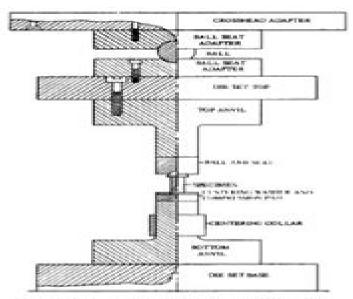


FIG. 5 Example of Compression Testing Appearatus

thin plates to carry load perpondicular to the surface. Medium-length specimens typically are used for determining the general compressive strength properties of metallic materials. Long specimens are best adapted for determining the modulus of elasticity in compression of metallic materials. The specimen dimensions given in Table 2 have been used successfully. Specimens with a L/D (length/diameter ratio) of 1.5 or 2.0 are best adapted for determining the compressive strength of high-strength materials.

7.2 Rectangular or Shert-Type Specimens—Test specimens shall be flat and preferably of the full thickness of the material. Where lateral support is necessary, the width and length are dependent upon the dimensions of the jig used to support the specimen. The length shall be sufficient to allow the specimen to shorten the amount required to define the yield strength, or yield point, but not long enough to permit buckling in the unsupported portion. Specimen dimensions and the various types of jigs are given in Table 1.

7.3 Preparation of Specimens—Lateral surfaces in the gage length shall not vary in diameter, width, or thickness by more than 1 % or 0.002 in. (0.05 mm), whichever is less. (If a reduced section is used, this requirement applies only to the surface of the reduced section.) Also, the centerline of all lateral surfaces of the specimens shall be constal within 0.01 in. (0.25 mm).

7.3.1 Surface Finish—Machined surfaces of specimens shall have a surface finish of 63 μin. (1.6 μm) or better. Machined lateral surfaces to which lateral support is to be applied shall be finished to at least 40 microinches (1.0 μm) arithmetic average.

7.3.2 Flatness and Parallelism—The ends of a specimen shall be flat and parallel within 0.0005 in./in. (mm/mm) and

# **Astm E9**

**Derek G Spear, Anthony N Palazotto** 

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Mechanical Properties and Working of Metals and Alloys Amit Bhaduri, 2018-05-12 This book is intended to serve as core text or handy reference on two key areas of metallic materials i mechanical behavior and properties evaluated by mechanical testing and ii different types of metal working or forming operations to produce useful shapes The book consists of 16 chapters which are divided into two parts The first part contains nine chapters which describe tension including elastic stress strain relation relevant theory of plasticity and strengthening methods compression hardness bending torsion pure shear impact loading creep and stress rupture fatigue and fracture The second part is composed of seven chapters and covers fundamentals of mechanical working forging rolling extrusion drawing of flat strip round bar and tube deep drawing and high energy rate forming The book comprises an exhaustive description of mechanical properties evaluated by testing of metals and metal working in sufficient depth and with reasonably wide coverage. The book is written in an easy to understand manner and includes many solved problems More than 150 numerical problems and many multiple choice questions as exercise along with their answers have also been provided The mathematical analyses are well elaborated without skipping any intermediate steps Slab method of analysis or free body equilibrium approach is used for the analytical treatment of mechanical working processes For hot working processes different frictional conditions sliding sticking and mixed sticking sliding have been considered to estimate the deformation loads In addition to the slab method of analysis this book also contains slip line field theory its application to the static system and the steady state motion Further this book includes upper bound theorem and upper bound solutions for indentation compression extrusion and strip drawing The book can be used to teach graduate and undergraduate courses offered to students of mechanical aerospace production manufacturing and metallurgical engineering disciplines The book can also be used for metallurgists and practicing engineers in industry and development courses in the metallurgy and metallic manufacturing industries 
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Green Composites Manufacturing Gurminder Singh, Ravinder Pal Singh, Neeraj Sharma, J. Paulo Davim, 2024-05-20 In today s society researchers are more focused on cleaner materials production for environmental sustainability This approach aims at reducing waste and the development of materials with enhanced properties and functionality This book focuses on optimizing manufacturing processes for sustainable composite materials It discusses optimum utilization of resources by using minimum effort to save cost and energy Metallic Materials Properties Development and Standardization (MMPDS):b MMPDS-09: Heat-resistant alloys, 2014 MMPDS 09 supersedes MMPDS 08 and prior editions of the MMPDS as well as all editions of MIL HDBK 5 Metallic materials and elements for aerospace vehicle structures handbook that was maintained by the U S Air Force The last edition MIL HDBK 5J was cancelled by the U S Air Force in March 2006 This document contains design information on the mechanical and physical properties of metallic materials and joints commonly used in aircraft and aerospace vehicle structures All information contained in this Handbook has been reviewed and approved using a standardized process The development and ongoing maintenance process involves certifying agencies

including the FAA DoD and NASA and major material suppliers and material users worldwide Pi Magnesium Technology 2015 Michele Manuel, Alok Singh, Martyn Alderman, Neale Neelameggham, 2016-12-26 The Magnesium Technology Symposium the event on which this collection is based is one of the largest yearly gatherings of magnesium specialists in the world Papers represent all aspects of the field ranging from primary production to applications to recycling Moreover papers explore everything from basic research findings to industrialization Magnesium Technology 2015 covers a broad spectrum of current topics including alloys and their properties cast products and processing wrought products and processing forming joining and machining corrosion and surface finishing ecology and structural applications. In addition there is coverage of new and emerging applications Testing and Modeling of Cellular Materials Derek G Spear, Anthony N Palazotto, 2022-12-30 Testing and Modeling of Cellular Materials discusses the characterization of cellular lattices through quasi static and dynamic testing for use in light weighting or energy absorbing applications Covering cellular materials specifically additively manufactured lattices this book further progresses into dynamic testing and modeling techniques for computational simulations It presents modeling and simulation techniques used for cellular materials and evaluates them against experimental results to illustrate the material response under various conditions. The book also includes a case study of high velocity impact that highlights the high strain rate effects on the cellular lattices Features Covers different testing techniques used in quasi static and dynamic material characterization of cellular materials Discusses additive manufacturing techniques for lattice specimen fabrication Analyzes different finite element modeling techniques for quasi static and dynamic loading conditions Presents a comparison and development of a phenomenological material model for use in computational analysis at various loading rates Explores impact stress wave analysis under high velocity loading The book will be useful for researchers and engineers working in the field of materials modeling and mechanics of materials

Innovations in Mechanical Engineering IV Jose Machado, Justyna Trojanowska, Erika Ottaviano, M. Anthony Xavior, Petr Valášek, Yevheniia Basova, 2025-07-11 This book reports on innovations and engineering achievements of industrial relevance with a special emphasis on mechanical engineering developments applied to modeling simulation and design of mechanical systems and synthesis of new materials for advanced manufacturing applications. It gathers peer reviewed papers presented at the 4th International Conference Innovation in Engineering ICIE 2025 held on June 18 20 2025 Prague Czech Republic All in all this first volume of a three volume set provides engineering researchers and professionals with a timely snapshot of technologies and strategies that should help shaping different industrial sectors to improve production efficiency industrial sustainability and human well being **Residential Rehabilitation Inspection Guideline**, 2000 Shape Memory Alloys Dimitris C. Lagoudas, 2008-06-05 It all started with a trip to Red River Coauthors families and colleagues enjoy a working vacation in the Sangre de Cristo Mountains of New Mexico March 2006 As technical conversations on modeling characterization and applications of shape memory alloys SMAs were blending with the view of the white snowy peaks

surrounding Red River New Mexico it became clear to our research group that a consistent and comprehensive text on SMAs would be very helpful to future students interested in performing research in this eld Many communication barriers could be eliminated and access to the substitial body of research discussed in the literature would be increased. In this way a working vacation became the motivating factor behind a challenging research project This book has been written with contributions from three of my current Ph D students Luciano Machado Parikshith Kumar and Darren Hartl and three former Ph D students Pavlin Entchev Peter Popov and Bj orn Kiefer These latter three coauthors were still members of the Shape Memory Alloy Research Team SMART or in close proximity when we started the project of writing this book more than a year and a half ago The work of a seventh former Ph D student Siddig Qidwai is also included in this book The task of putting forth a sequence of topics on shape memory alloys SMAs that VIII Preface forms a coherent learning path seemed natural given the diversity of topics covered by their Ph D work Structural Integrity and Monitoring for Composite Materials Ahmad Hamdan Ariffin, Noradila Abdul Latif, Muhammad Faisal bin Mahmod, Zaleha Binti Mohamad, 2023-01-27 The book focuses on the recent technology and advancement in structural integrity and monitoring systems in composite materials Composites have been widely used in automotive aerospace and wind turbine industries therefore it is important to develop state of the art technology to monitor and manage the damage tolerance and durability This book explores the challenge of a monitoring system in a composite and presents a real time system which has advantages for damage detection localization assessment and life prediction compared to the Non Destructive Testing NDT It will also present the modelling and prediction of failure in a composite material based on computational analysis of the characteristics and properties of the composite material based on fiber and matrix properties This book will benefit lecturers students researchers engineers and industrialist who are working in the civil mechanical engineering automotive aerospace and wind turbine industries Manufacturing Processes and Smart Manufacturing Systems Denni Kurniawan, Fethma M. Nor, 2024-12-27 This book presents an exploration of contemporary challenges and opportunities in manufacturing and supply chain management expected to provide insights for academics and industry professionals This is the first volume of a two volume proceedings series curated from over 100 submissions from the Global Congress on Manufacturing and Management GCMM 2023 held in Kuching Malaysia on December 4 7 2023 The chapters cover a broad spectrum of industries including automotive electronics food and energy with a wide range of topics from the adoption of new technologies like induction stoves and electric vehicles to the optimization of production facilities and supply chain resilience Recent Advances in Material, Manufacturing, and Machine Learning Bjorn Schuller, Rajeev Gupta, Rakesh Mote, Abhishek Sharma, J.P. Giri, R.B. Chadge, 2024-06-17 The main aim of the 2nd international conference on recent advances in materials manufacturing and machine learning processes 2023 RAMMML 23 is to bring together all interested academic researchers scientists engineers and technocrats and provide a platform for continuous improvement of manufactur ing machine learning design and materials engineering research

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