

### Standard Specification for Steel Wire, Music Spring Quality<sup>1</sup>

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#### Scope.

1.1 This specification covers a high quality, round, cold-drawn steel music spring quality wire, uniform in mechanical properties, intended especially for the manufacture of springs subject to high stresses or requiring good fatigue properties.

1.2 The values stated in either SI (metric) units or inchpound units are to be regarded separately as standard. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other.

#### 2. Referenced Documents

- 2.1 ASTM Standards:
- A 370 Test Methods and Definitions for Mechanical Testing of Steel Products<sup>2</sup>
- A 510 Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel<sup>2</sup>
- A 510M Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel [Metric]<sup>2</sup>
- A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment<sup>3</sup>
- A 751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products<sup>2</sup>
- A 938 Standard Test Method for Torsion Testing of Wire\*
- A 941 Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys<sup>4</sup>
- E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications?
- E 1077 Test Method for Estimating the Depth of Decarburtration of Steel Specimens\*
- 2.2 Military Standard:
- MIL-STD-163 Steel Mill Products, Preparation for Shipment and Storage

#### 2.3 Findered Standard:

Fed. Std. No. 123. Marking for Shipment (Civil Agencies)<sup>3</sup>
2.4. American National Standard:

B32.4 Preferred Metric Sizes for Round, Square, Rectangle, and Hexagon Metal Products\*

2.5 ALAG Standard:

ALAG B-5 02:00 Primary Metals Identification Tag Application Standard\*

#### 3. Terminology

 Definitions—For definitions of terms used in this specification, refer to Terminology A 941.

#### 4. Ordering Information

4.1 It shall be the responsibility of the purchaser to specify all requirements that are necessary for material under this specification. Such requirements may include, but are not limited to, the following information:

4.1.1 Quantity (mass).

4.1.2 Name of material (music steel spring wire).

4.1.3 Dimensions (Table 1 and Section 9),

4.1.4 Finish (see 10.2).

4.1.5 Packaging (Section 15),

4.1.6 Heat analysis report, if requested (see 6.2).

4.1.7 Certification or test report, or both, if specified (Section 14), and

4.1.8 ASTM designation and year of issue.

Norm 1— A typical mentic ordering description is an inflower 2500 kg. Music Spring Wire, I. 40 mm diameter, phosphate countd in 25 kg wells to ASTM: A 288M dated — or for each-potent tents, 5000 fb Music Spring Wire, 0.055 in diameter, phosphate countd in 50 fb coils to ASTM A 288 dated.

#### 5. Materials and Manufacture

5.1 The steel may be made by any commercially accepted steel-making process. The steel may be either ingot cast or strand cast. The rod to be used in the manufacture of wire furnished to this specification shall be in accordance with Specification A 510 or A 510M.

<sup>&</sup>lt;sup>1</sup> Unit apositionation is unable the jurisdiction of AATM Communities AAV on Storic Storics Storic, and Belated Alloys said is the direct responsibility of Subcommutes AAVI III on Storic Red and Wine.

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<sup>\*</sup> Annual Book of ESEM Standards, Not 68 to.

<sup>\*</sup>Annual Blook of ASSM Standards, Vol. 00.05.

<sup>\*</sup> Annual Book of ASSS Stondards, Vol. 00.00.

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<sup>&</sup>quot; Amena! Book of ESTM Standards, Vol 60.04.

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<sup>&</sup>lt;sup>5</sup> Acustable from American National Numberle Institute, 11 Wast 42nd News, 13th Floris, New York, NY 10056.

<sup>&</sup>quot;Available from the Automorous Industry Action Group, 26200 Labor, Suite 200, Smithbolk MI 48054.

# **<u>Astm A228</u>**

Joseph Edward Shigley, Charles R. Mischke

#### **Astm A228:**

**Advanced Mechanics and Design of Metallic Materials Specification Handbook** R.B. Ross, 2013-11-27 Mechanical System Mr. Rohit Manglik, 2024-05-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Worldwide Guide to Equivalent Irons and Steels Fran Cverna, 2006-01-01 More than 30 000 listings are presented in this edition with increased coverage from major steel producing countries such as Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) China India and Japan Part III July 2005, Air Force Manual United States. Department of the Air Force,1973 Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005, Mechanical Design Engineering Handbook Peter Childs, 2013-09-02 Mechanical Design Engineering Handbook is a straight talking and forward thinking reference covering the design specification selection use and integration of machine elements fundamental to a wide range of engineering applications Develop or refresh your mechanical design skills in the areas of bearings shafts gears seals belts and chains clutches and brakes springs fasteners pneumatics and hydraulics amongst other core mechanical elements and dip in for principles data and calculations as needed to inform and evaluate your on the job decisions Covering the full spectrum of common mechanical and machine components that act as building blocks in the design of mechanical devices Mechanical Design Engineering Handbook also includes worked design scenarios and essential background on design methodology to help you get started with a problem and repeat selection processes with successful results time and time again This practical handbook will make an ideal shelf reference for those working in mechanical design across a variety of industries and a valuable learning resource for advanced students undertaking engineering design modules and projects as part of broader mechanical aerospace automotive and manufacturing programs Clear concise text explains key component technology with step by step procedures fully worked design scenarios component images and cross sectional line drawings all incorporated for ease of understanding Provides essential data equations and interactive ancillaries including calculation spreadsheets to inform decision making design evaluation and incorporation of components into overall designs Design procedures and methods covered include references to national and international standards where appropriate

**Fundamentals of Machine Component Design** Robert C. Juvinall, Kurt M. Marshek, 2020-06-23 Fundamentals of Machine Component Design presents a thorough introduction to the concepts and methods essential to mechanical engineering design analysis and application In depth coverage of major topics including free body diagrams force flow concepts failure theories and fatigue design are coupled with specific applications to bearings springs brakes clutches fasteners and more for a real world functional body of knowledge Critical thinking and problem solving skills are

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purchased as a set for a special discounted price Learn how others have investigated and solved failures in various industries involving a wide range of failure modes materials and analysis techniques Design of Machine Elements Mr. V. Venkatrami Reddy, Prof. Mangesh Ambadas Ahire, Dr. Nitin Keshaorao Khedkar, Dr. B.R. Senthil Kumar, 2024-08-16 Design of Machine Elements is focused on the principles and applications of designing various mechanical components essential to machine construction This fundamental concepts of stress analysis material selection and safety factors with chapters dedicated to specific elements such as shafts bearings gears springs and fasteners It integrates theoretical insights with practical design examples ensuring students and engineers understand both analytical and computational methods for safe and efficient designs Ideal for engineering students and professionals it provides tools to navigate complex mechanical design challenges across industries Fundamentals of Machine Component Design Wael A. Altabey, 2023-09-25 Fundamentals of Machine Component Design bridges theory and practice to provide readers with a thorough understanding of best practices for machine component design and application Load and stress analysis fatigue fracture and other mechanical behaviors that can result in the failure of a machine component are discussed in the early chapters before the book moves onto to cover different connections welded and bolted prevalent in machine components and then individual components such as gears shafts bearings springs pressure vessels brakes clutches keys and couplings and more The book ends with chapters outlining different design methods as well as design problems for readers to practice with the solutions to which are also provided Covers the design of shafts power screws bolts welded connections springs and pressure vessels as well as transmitted power elements such as belts chains gears and wire ropes Outlines finite element methods and other techniques that can be used for effectively designing machine components Discusses contact and sliding bearings keys and couplings gears helical spur bevel and worm and more Includes solved problems to help readers refine their skills

Mechanical Design of Machine Elements and Machines Jack A. Collins, Henry R. Busby, George H. Staab, 2009-10-19
Taking a failure prevention perspective this book provides engineers with a balance between analysis and design The new edition presents a more thorough treatment of stress analysis and fatigue It integrates the use of computer tools to provide a more current view of the field Photos or images are included next to descriptions of the types and uses of common materials The book has been updated with the most comprehensive coverage of possible failure modes and how to design with each in mind Engineers will also benefit from the consistent approach to problem solving that will help them apply the material on the job Manuals Combined: Nondestructive Testing (NDT) And Inspection (NDI), Over 8 300 pages Just a SAMPLE of the CONTENTS NONDESTRUCTIVE INSPECTION METHODS Published by the Departments of the Army Navy and Air Force on 1 March 2000 771 pages and June 2005 762 pages Metallic Materials and Elements for Aerospace Vehicle Structures 1 733 pages Designing and Developing Maintainable Products and Systems Revision A 719 pages Sampling Procedures and Tables for Inspection by Attributes 75 pages Nondestructive Testing Acceptance Criteria 88 pages

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Index of Specifications and Standards, 2005

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