



Designation: **A370 – 19**

Standard Test Methods and Definitions for Mechanical Testing of Steel Products¹

This standard is issued under the fixed designation A370; 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 superscript (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 methods³ cover procedures and definitions for the mechanical testing of steels, stainless steels, and related alloys. The various mechanical tests herein described are used to determine properties required in the product specifications. Variations in testing methods are to be avoided, and standard methods of testing are to be followed to obtain reproducible and comparable results. In those cases in which the testing requirements for certain products are unique or at variance with these general procedures, the product specification testing requirements shall control.

1.2 The following mechanical tests are described:

	Sections
Tension	8 to 14
Bend	15
Hardness	16
Ballast	17
Rockwell	18
Portable	19
Impact	20 to 30
Keywords	32

1.3 Annexes covering details peculiar to certain products are appended to these test methods as follows:

	Annex
Bar Products	Annex A1
Tubular Products	Annex A2
Reinforcing Bars	Annex A3
Round Wire Products	Annex A4
Significance of Notched-Bar Impact Testing	Annex A5
Converting Percentage Elongation of Round Specimens to Equivalents for Flat Specimens	Annex A6
Testing Multi-Wire Strand	Annex A7
Rounding of Test Data	Annex A8
Methods for Testing Steel Reinforcing Bars	Annex A9
Procedure for Use and Control of Heat-Cycle Simulation	Annex A10

1.4 The values stated in inch-pound units are to be regarded as the standard.

1.5 When this document is referenced in a metric product specification, the yield and tensile values may be determined in inch-pound (ksi) units then converted into SI (MPa) units. The elongation determined in inch-pound gauge lengths of 2 or 8 in. may be reported in SI unit gauge lengths of 50 or 200 mm, respectively, as applicable. Conversely, when this document is referenced in an inch-pound product specification, the yield and tensile values may be determined in SI units then converted into inch-pound units. The elongation determined in SI unit gauge lengths of 50 or 200 mm may be reported in inch-pound gauge lengths of 2 or 8 in., respectively, as applicable.

1.5.1 The specimen used to determine the original units must conform to the applicable tolerances of the original unit system given in the dimension table not that of the converted tolerance dimensions.

Note 1—This is due to the specimen SI dimensions and tolerances being hard conversions when this is not a dual standard. The user is directed to Test Methods A1058 if the tests are required in SI units.

1.6 Attention is directed to ISO/IEC 17025 when there may be a need for information on criteria for evaluation of testing laboratories.

1.7 *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.*

1.8 *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.*

2. Referenced Documents

2.1 ASTM Standards:⁴

A623 Specification for Tin Mill Products, General Requirements

¹ These test methods and definitions are under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and are the direct responsibility of Subcommittee A01.13 on Mechanical and Chemical Testing and Processing Methods of Steel Products and Processes.

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² For ASME Boiler and Pressure Vessel Code applications see related Specification SA-370 in Section II of that Code.

³ 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.

⁴ A Summary of Changes section appears at the end of this standard.

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Table of Contents Astm A370 Digital E Book

1. Understanding the eBook Astm A370 Digital E Book
 - The Rise of Digital Reading Astm A370 Digital E Book
 - Advantages of eBooks Over Traditional Books
2. Identifying Astm A370 Digital E Book
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astm A370 Digital E Book
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astm A370 Digital E Book
 - Personalized Recommendations
 - Astm A370 Digital E Book User Reviews and Ratings
 - Astm A370 Digital E Book and Bestseller Lists

5. Accessing Astm A370 Digital E Book Free and Paid eBooks
 - Astm A370 Digital E Book Public Domain eBooks
 - Astm A370 Digital E Book eBook Subscription Services
 - Astm A370 Digital E Book Budget-Friendly Options
6. Navigating Astm A370 Digital E Book eBook Formats
 - ePub, PDF, MOBI, and More
 - Astm A370 Digital E Book Compatibility with Devices
 - Astm A370 Digital E Book Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm A370 Digital E Book
 - Highlighting and Note-Taking Astm A370 Digital E Book
 - Interactive Elements Astm A370 Digital E Book
8. Staying Engaged with Astm A370 Digital E Book
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm A370 Digital E Book
9. Balancing eBooks and Physical Books Astm A370 Digital E Book
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm A370 Digital E Book
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Astm A370 Digital E Book
 - Setting Reading Goals Astm A370 Digital E Book
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Astm A370 Digital E Book
 - Fact-Checking eBook Content of Astm A370 Digital E Book
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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