



Designation: A370 – 19<sup>1</sup>

## Standard Test Methods and Definitions for Mechanical Testing of Steel Products<sup>1</sup>

This standard is listed under the final 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 symbol (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.*

<sup>1</sup> NOTE—Typographical errors in Table A8.1 were corrected editorially in September 2019.

### 1. Scope<sup>a</sup>

1.1 These test methods<sup>2</sup> 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:

Tension	Sections
Bar	8 to 14
Hardness	15
Brinell	16
Rockwell	17
Portable	18
Impact	20 to 23
Keywords	24

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

Bar Products	Annex A1
Tubular Products	Annex A2
Reinforcing	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

<sup>a</sup> 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.

Current edition approved July 1, 2019. Published July 2019. Originally approved in 1953. Last previous edition approved in 2018 as A370 – 18. DOI: 10.1520/A0370-19E01.

<sup>1</sup> For ASME Boiler and Pressure Vessel Code applications see related Specification SA-370 in Section II of that Code.

Methods for Testing Steel Reinforcing Bars  
Procedure for Use and Control of Heat-Cycle Simulation

Annex A9  
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 A1055 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.*

<sup>a</sup>A Summary of Changes section appears at the end of this standard.

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