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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. Annex A4: steel round wire products, apparatus, test specimens, elongation, reduction of area, Rockwell hardness test, wrap test, coiling test, Annex A5: notes of significance of notched-bar impact testing, notch behavior, notch effect, size effect, effects of testing conditions, velocity of straining, correlation with service. Annex A10: procedure for use and control of heat-cycle simulation. 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 units 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. Designation: A370 – 18 Standard Test Methods and Definitions for Mechanical Testing of Steel Products 1 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. 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. 1, 2018. Charpy V-notch impact test: general process, significance and use, apparatus, sampling and number of specimens, conditioning-temperature control, testing procedure, calibration, interpretation of test result, record and report, etc. Annex A9: methods for testing steel reinforced bars. Annex A1: steel bar products, orientation of specimens, tension test, bend test, hardness test. Bend Test: one method for evaluating ductility performed at room temperature. 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. A superscript epsilon ( <sup>ε</sup> ) indicates an editorial change since the last revision or reapproval. This standard has been approved for use by agencies of the U.S. Department of Defense. 1. Scope\* 1.1 These test methods cover procedures and definitions for the mechanical testing of steels, stainless steels, and related alloys. Last previous edition approved in 2017 as A370 - 17a. Published January 2019. Annex A7: testing multi-wire strand. Annex A2: steel tubular products, tension test, determination of transverse yield strength, hydraulic ring-expansion method, hardness tests, flattening test, reverse flattening test, crush test, flange test, flaring test, bend test, etc. DOI:10.1520/A0370-18.2 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. 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 6 to 14 Bend 15 Hardness 16 Brinell 17 Rockwell 18 Portable 19 Impact 20 to 30 Keywords 321.3 Annexes covering details peculiar to certain products are appended to these test methods as follows: Annex Bar Products Annex A1 Tubular Products Annex A2 Fasteners 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. Click to download the PDF of ASTM A370/ ASME SA-370 (2016 version) for free. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.\* A Summary of Changes section appears at the end of this standard Copyright © ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. Annex A3: steel fasteners, tension tests, hardness tests for externally threaded fasteners, testing of nuts. may be reported in SI unit gauge lengths of 50 or 200 mm, respectively, as applicable. A number in parentheses indicates the year of last reapproval. Significance and use, general precautions, orientation of specimens Tension test: description, terminology, testing apparatus and operations, test specimen parameters, plate type specimens, sheet type specimen, gauge marks, determination of tensile properties. 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: 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. Current edition approved Dec. Hardness Test: Brinell test, Rockwell test, Portable hardness test. Annex A8: rounding of test data. United States 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. 1 ASTM A370, which is identical with ASME SA-370, is the standard specification covering test methods and definitions for mechanical testing of ferrous and nonferrous metals such as steels, stainless steels, titanium & its alloy, nickel & its alloy, zirconium and its alloy, etc. The various mechanical tests herein described are used to determine properties required in the product specifications. Related Items » AWS 5.14 ERNiCrMo-4 for GTAW of Hastelloy C-276 » Tensile & Yield Strength of UNS N10276 Plate » Applicability of Hastelloy C-276 (UNS N10276) Plate in ASME Code » Hastelloy C-276 (UNS N10276) Plates/Sheets for FGD System » ASTM A789 UNS S31803 Tubing » Tensile & Yield Strengths of ASTM A182 F51 at Elevated Temperatures View PDF Volume 206, August 2021, 109813 rights and content Intermetallic precipitates currently viewing December 2021 Standard Test Methods and Definitions for Mechanical Testing of Steel Products September 2020 Standard Test Methods and Definitions for Mechanical Testing of Steel Products September 2019 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2019 Standard Test Methods and Definitions for Mechanical Testing of Steel Products December 2018 Standard Test Methods and Definitions for Mechanical Testing of Steel Products November 2017 Standard Test Methods and Definitions for Mechanical Testing of Steel Products January 2017 Standard Test Methods and Definitions for Mechanical Testing of Steel Products May 2016 Standard Test Methods and Definitions for Mechanical Testing of Steel Products November 2015 Standard Test Methods and Definitions for Mechanical Testing of Steel Products May 2014 Standard Test Methods and Definitions for Mechanical Testing of Steel Products November 2013 Standard Test Methods and Definitions for Mechanical Testing of Steel Products October 2012 Standard Test Methods and Definitions for Mechanical Testing of Steel Products March 2012 Standard Test Methods and Definitions for Mechanical Testing of Steel Products November 2011 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2010 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2009 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2009 Standard Test Methods and Definitions for Mechanical Testing of Steel Products January 2009 Standard Test Methods and Definitions for Mechanical Testing of Steel Products October 2008 Standard Test Methods and Definitions for Mechanical Testing of Steel Products April 2008 Standard Test Methods and Definitions for Mechanical Testing of Steel Products April 2008 Standard Test Methods and Definitions for Mechanical Testing of Steel Products November 2007 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2007 Standard Test Methods and Definitions for Mechanical Testing of Steel Products April 2007 Standard Test Methods and Definitions for Mechanical Testing of Steel Products November 2006 Standard Test Methods and Definitions for Mechanical Testing of Steel Products May 2005 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2003 Standard Test Methods and Definitions for Mechanical Testing of Steel Products June 2003 Standard Test Methods and Definitions for Mechanical Testing of Steel Products January 2002 Standard Test Methods and Definitions for Mechanical Testing of Steel Products December 2001 Standard Test Methods and Definitions for Mechanical Testing of Steel Products December 2001 Standard Test Methods and Definitions for Mechanical Testing of Steel Products May 1997 Standard Test Methods and Definitions for Mechanical Testing of Steel Products January 1994 Standard Test Methods and Definitions for Mechanical Testing of Steel Products January 1968 Standard Methods and Definitions for Mechanical Testing of Steel Products 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. The standard specification ASTM A370 mainly covers: Referenced ASTM, ASME and ISO documents. Annex A6: converting percentage elongation of round specimens to equivalents for flat specimens. The elongation determined in inch-pound gauge lengths of 2 or 8 in. Originally approved in 1953.

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