

| | Document | Title |
|-------------|--|--|
| AMS | AMS 2315 | Determination of Delta Ferrite Content |
| | AMS 2380 | Approval and Control of Premium-Quality Titanium Alloys |
| | AMS 2750 | Pyrometry |
| | AMS-H-2759 | Heat Treatment Austenitic Corrosion-Resistant Steel Parts |
| | AMS 5085 | Steel Sheet, Strip, and Plate 0.47-0.55C (SAE 1050) Annealed |
| | AMS 5120 | Steel Strip 0.68-0.80C (SAE 1074) |
| | AMS H-6875 | Heat Treatment of Steel Raw Materials |
| ASME | SECTION II | Various Sections |
| | SECTION VIII | Various Sections |
| | SECTION IX | Various Sections |
| | B46.1-2002 | Surface Texture (Surface Roughness, Waviness, And Lay) |
| ASTM | A90/90M | Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings |
| | A247 | Standard Test Method for Evaluating the Microstructure of Graphite in Iron Castings |
| | A255 | Standard Test Methods for Determining Hardenability of Steel |
| | A262 | Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels |
| | A309 | Standard Test Method for Weight and Composition of Coating on Terne Sheet by the Triple-Spot Test |
| | A325 | Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strengths |
| | A325M | Standard Specification for High-Strength Bolts for Structural Steel Joints [Metric] |
| | A370 | Standard Test Methods and Definitions for Mechanical Testing of Steel Products |
| | A428/M | Test Methods for Weight of Coating on Aluminum –Coated Iron or Steel Articles |
| | A489 | Standard Specification for Carbon Steel Lifting Eyes |
| | A540/M | Standard Specification for Alloy-Steel Bolting Materials for Special Applications |
| | A604/604M | Standard Practice for Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets |
| | A646/M | Specification for Premium Quality Alloy Steel Blooms and Billets for Aircraft and Aerospace Forgings |
| | A892 | Guide for Defining and Rating the Microstructure of High Carbon Bearing Steels |
| | A923 | Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels |
| | B117 | Practice for Operating Salt Spray (Fog) Apparatus |
| | B276 | Test Method for Apparent Porosity in Cemented Carbides |
| | B487 | Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section |
| | B557 | Standard Test Methods of Tension Testing Wrought and Cast Aluminum- and Magnesium- Alloy Products |
| | B571 | Test Methods for Adhesion of Metallic Coatings |
| | D870 | Practice for Testing Water Resistance of Coatings Using Water Immersion |
| | D1193 | Standard Specification for Reagent water |
| | D2247 | Practice for Testing Water Resistance of Coatings in 100% Humidity |
| | D3363 | Standard Test Method for Film Hardness by Pencil Test |
| | E3 | Standard Guide for Preparation of Metallographic Specimens |
| | E8/E8M | Standard Test Methods for Tension Testing of Metallic Materials |
| | E9 | Test Methods for Compression Testing of Metallic Materials at Room Temperature |
| | E10 | Standard Test Method for Brinell Hardness of Metallic Materials |
| | E18 | Standard Test Methods for Rockwell Hardness of Metallic Materials |
| | E21 | Test Methods for Elevated Temperature Tension Tests of Metallic Materials |
| | E23 | Standard Test Methods for Notched Bar Impact Testing of Metallic Materials |
| E29 | Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications | |
| E45 | Test Methods for Determining the Inclusion Content of Steel | |
| E82 | Test Method for Determining the Orientation of a Metal Crystal | |

| | |
|------------|---|
| E92 | Test Method for Vickers Hardness of Metallic Materials |
| E112 | Standard Test Methods for Determining Average Grain Size |
| E139 | Practice for Conducting Creep, Creep-Rupture, and Stress Rupture Tests of Metallic Materials |
| E140 | Hardness Conversion Tables for Metals (Relationship Among Brinell Hardness, Vickers Hardness, Rockwell Hardness, Rockwell Superficial Hardness, Knoop Hardness, and Scleroscope Hardness) |
| E157 | Practice for Assigning Crystallographic Phase Designations in Metallic Systems |
| E190 | Test Method for Guided Bend Test for Ductility of Welds |
| E290 | Test Method for Semi-Guided Bend Test for Ductility of Metallic Materials |
| E292 | Test Methods for Conducting Time-for-Rupture Notch Tension Tests of Materials |
| E340 | Standard Test Methods for Macroetching Metals and Alloys |
| E350 | Test Methods for Chemical Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron |
| E381 | Method of Macroetch Testing Steel Bars, Billets, Blooms, and Forgings |
| E384 | Standard Test Method for Microindentation Hardness of Materials |
| E399 | Test Method for Plane-Strain Fracture Toughness of Metallic Materials |
| E406 | Standard Practice for Using Controlled Atmospheres in Spectrochemical Analysis |
| E407 | Standard Practice For Microetching Metals and Alloys |
| E415 | Standard Test Method for Optical Emission Vacuum Spectrometric Analysis of Carbon and Low-Alloy Steel |
| E517 | Standard Test Method for Plastic Strain Ratio r for Sheet Metal |
| E643 | Standard Test Method for Ball Punch Deformation of Metallic Sheet Material |
| E646 | Standard Test Method for Tensile Strain-Hardening Exponents (n -Values) of Metallic Sheet Materials |
| E883 | Standard Guide for Reflected-Light Photomicrography |
| E930 | Standard Test Methods for Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size) |
| E1004 | Test Method for Electromagnetic (Eddy-Current) Measurements of Electrical Conductivity |
| E1019 | Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel and in Iron, Nickel, and Cobalt Alloys |
| E1086 | Test Method for Optical Emission Vacuum Spectrometric Analysis of Stainless Steel by the Point-To-Plane Excitation Technique |
| E1251 | Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Atomic Emission Spectrometry |
| E1268 | Standard Practice for Assessing the Degree of Banding or Orientation of Microstructures |
| E1409 | Standard Test Method for Determination of Oxygen and Nitrogen in titanium and Titanium Alloys by the Inert Gas Fusion Technique |
| E1447 | Standard Test Method For Determination of Hydrogen in Titanium and Titanium Alloys By Inert Gas Fusion Thermal Conductivity Method |
| E1476 | Guide for Metals Identification, Grade Verification, and Sorting |
| E1507 | Standard Guide for Describing and Specifying the Spectrometer of an Optical Emission Direct-Reading Instrument |
| E1820 | Standard Test Method for Measurement of Fracture Toughness |
| E1999 | Standard Test Method for Analysis of Cast Iron Using Optical Emission Spectrometry |
| E2209 | Standard Test Method for Analysis of High Manganese Steel Using Atomic Emission Spectrometry |
| F519 | Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments |
| F606 | Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets |
| F606M | Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, and Rivets [Metric] |
| F738M | Specification for Stainless Steel Metric Bolts, Screws, and Studs |
| F788/F788M | Standard Specification for Surface Discontinuities of Bolts, Screws, and Studs, Inch and Metric Series |
| F812/F812M | Specification for Surface Discontinuities of Nuts, Inch and Metric Series |
| F880 | Standard Specification for Stainless Steel Socket-Set Screws |
| F912 | Standard Specification for Alloy Steel Socket Set Screws |

AS AS 1814 Terminology for Titanium Microstructure

| | | |
|----------------------|--|---|
| AWS | AWS D1.1 AWS D17.1 | Specification for Fusion Welding for Aerospace Applications |
| AC | AC 7101 | General Requirements For The Nadcap MATERIALS TESTING LABORATORY ACCREDITATION PROGRAM |
| BS EN ISO | ISO 83 | Steel - Charpy impact test (U-notch) |
| | ISO 3651-2 | Determination of resistance to intergranular corrosion of stainless steels – Part 2: |
| | ISO 10002-1 | Metallic materials – Tensile testing Part1: |
| | ISO 10204 | Metallic products- Types of inspection documents |
| DIN | 50 021 | Salt Spray testing |
| GM | GM 4350 GM 9095P | |
| GE | GE S-400 | Certified Materials Test Laboratories (CMTL) |
| | GE E50TF133 | Metallographic Evaluation of Grain Size In Wrought Nickel and Heat Resistant Alloys |
| | GE P3TF19 | Examination of Wrought Titanium Alloys for Alpha Case |
| | GE P29TF73 | Surface Integrity Acceptability Limits for Nontraditional Machined Surfaces |
| | 8504009- | GE Photos – Grain Size |
| | 8504024 | |
| | 8806002- | GE Photos – Grain Size |
| | 8806012 | |
| | 8902014- | GE Photos – Alpha Case |
| | 9102001 | |
| IFI | IFI 100/107 | Prevailing-Torque Type Steel Hex and Hex Flange Nuts Regular and Light Hex Series |
| | IFI 101 | Torque-Tension Requirements for Prevailing-Torque Type Steel Hex and Hex Flange Nuts—Inch |
| | IFI 114 | Break Mandrel Blind Rivets |
| | IFI 116 | Structural Self-Plugging Pull Mandrel Blind Rivets |
| | IFI 117 | Standard for Pull Through Mandrel Blind rivets |
| | IFI 119 | Standard for Structural Flush Break Pull Self Plugging Blind Rivets |
| JIS | Z2201 | Test pieces for tensile test for metallic materials |
| MIL-STD | MIL STD 209K MIL STD 1949 MIL STD 6866 | Interface Standard For Lifting and Tiedown Provisions |
| MIL | MIL-B-87114 MIL-H-6875 MIL-I-45208A MIL-P-5673 MIL-Q-9858A | Inspection System Requirements Quality Program Requirements |
| NASM | NASM 1312-1 NASM 1312-3 | Salt Spray Humidity |

NASM 1312-5 Stress Durability
 NASM 1312-6 Hardness
 NASM 1312-8 Tensile Strength
 NASM 1312-12 Thickness of Metallic Coatings
 NASM 1312-13 Double Shear Test
 NASM 1312-15 Torque-Tension
 NASM 1312-18 Elevated Tension Testing
 NASM 1312-20 Single Shear
 NASM 1312-22 Receptacle Push-Out Panel Fasteners
 NASM 1312-23 Tensile Strength of Panel Fasteners
 NASM 1312-24 Receptacle Torque-Out Panel Fasteners
 NASM 1312-25 Driving Recess Torque Quality Conformance Test
 NASM 1312-26 Structural Panel Fastener Lap Joint Shear
 NASM 1312-27 Panel Fastener Sheet Pull-Up
 NASM 1312-28 Elevated Temperature Double Shear
 NASM 1312-31 Torque

SAE SAE J1200 Blind Rivets- Break Mandrel Type
 SAE J121 Decarburization in Hardened and Tempered Unified Threaded Fasteners
 SAE J122 Surface Discontinuities on Nuts
 SAE J123 Surface Discontinuities on Bolts, Screws, and Studs in Fatigue Applications
 SAE J174 Torque-Tension Test Procedure for Steel Threaded Fasteners- Inch Series
 SAE J406 Methods for Determining Hardenability of Steels
 SAE J419 Methods of Measuring Decarburization
 SAE J423 Methods of Measuring Case Depth
 SAE J429 Mechanical and Material Requirements for Externally Threaded Fasteners
 SAE J78 Steel Self-Drilling Tapping Screws
 SAE J81 Thread Rolling Screws
 SAE J995 Mechanical and Material Requirements for Steel Nuts

PWA E72 Microstructure of Titanium Alloy Rotor Forgings

NDT ASTM E114 Standard Practice for Ultrasonic Pulse-Echo Straight-Beam Examination by the Contact Method
 ASTM E1444 Standard Practice for Magnetic Particle Examination
 ASTM E165 Standard Test Method for Liquid Penetrant Examination
 ASTM E709 Standard Guide for Magnetic Particle Examination
 AMS2300 Steel Cleanliness, Premium Aircraft-Quality Magnetic Particle Inspection Procedure
 AMS 2301 Steel Cleanliness, Aircraft Quality Magnetic Particle Inspection
 AMS 2303 Steel Cleanliness, Aircraft Quality Martensitic Corrosion-Resistant Steels Magnetic Particle Inspection
 AMS 2304 Special Aircraft-Quality Steel Cleanliness Magnetic Particle Inspection Procedure