

**Volume 01.05, January 2007**  
**Steel - Bars, Forgings, Bearing, Chain, Springs**

**Standards and Related Materials Contained in this Volume:**

[\(Click here for a list of withdrawn standards\)](#)

- [A29/A29M-05 Standard Specification for Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for - \(View Full Text\)](#)
- [A108-03e1 Standard Specification for Steel Bar, Carbon and Alloy, Cold-Finished - \(View Full Text\)](#)
- [A125-96\(2001\) Standard Specification for Steel Springs, Helical, Heat-Treated - \(View Full Text\)](#)
- [A255-02e1 Standard Test Methods for Determining Hardenability of Steel - \(View Full Text\)](#)
- [A266/A266M-03a Standard Specification for Carbon Steel Forgings for Pressure Vessel Components - \(View Full Text\)](#)
- [A275/A275M-06 Standard Test Method for Magnetic Particle Examination of Steel Forgings - \(View Full Text\)](#)
- [A288-91\(2003\) Standard Specification for Carbon and Alloy Steel Forgings for Magnetic Retaining Rings for Turbine Generators - \(View Full Text\)](#)
- [A289/A289M-97\(2003\) Standard Specification for Alloy Steel Forgings for Nonmagnetic Retaining Rings for Generators - \(View Full Text\)](#)
- [A290/A290M-05 Standard Specification for Carbon and Alloy Steel Forgings for Rings for Reduction Gears - \(View Full Text\)](#)
- [A291/A291M-05 Standard Specification for Steel Forgings, Carbon and Alloy, for Pinions, Gears and Shafts for Reduction Gears - \(View Full Text\)](#)
- [A295/A295M-05 Standard Specification for High-Carbon Anti-Friction Bearing Steel - \(View Full Text\)](#)
- [A304-05e2 Standard Specification for Carbon and Alloy Steel Bars Subject to End-Quench Hardenability Requirements - \(View Full Text\)](#)
- [A311/A311M-04 Standard Specification for Cold-Drawn, Stress-Relieved Carbon Steel Bars Subject to Mechanical Property Requirements - \(View Full Text\)](#)
- [A321-90\(2001\) Standard Specification for Steel Bars, Carbon, Quenched and Tempered - \(View Full Text\)](#)
- [A322-06 Standard Specification for Steel Bars, Alloy, Standard Grades - \(View Full Text\)](#)
- [A336/A336M-06a Standard Specification for Alloy Steel Forgings for Pressure and High-Temperature Parts - \(View Full Text\)](#)
- [A355-89\(2006\) Standard Specification for Steel Bars, Alloys, for Nitriding - \(View Full Text\)](#)
- [A370-06 Standard Test Methods and Definitions for Mechanical Testing of Steel Products - \(View Full Text\)](#)
- [A372/A372M-03 Standard Specification for Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels - \(View Full Text\)](#)

[A388/A388M-05 Standard Practice for Ultrasonic Examination of Heavy Steel Forgings - \(View Full Text\)](#)

[A391/A391M-01 Standard Specification for Grade 80 Alloy Steel Chain - \(View Full Text\)](#)

[A400-69\(2006\) Standard Practice for Steel Bars, Selection Guide, Composition, and Mechanical Properties - \(View Full Text\)](#)

[A413/A413M-01 Standard Specification for Carbon Steel Chain - \(View Full Text\)](#)

[A418/A418M-05 Standard Test Method for Ultrasonic Examination of Turbine and Generator Steel Rotor Forgings - \(View Full Text\)](#)

[A427-02 Standard Specification for Wrought Alloy Steel Rolls for Cold and Hot Reduction - \(View Full Text\)](#)

[A434-06 Standard Specification for Steel Bars, Alloy, Hot-Wrought or Cold-Finished, Quenched and Tempered - \(View Full Text\)](#)

[A456/A456M-99\(2003\) Standard Specification for Magnetic Particle Examination of Large Crankshaft Forgings - \(View Full Text\)](#)

[A466/A466M-01 Standard Specification for Weldless Chain - \(View Full Text\)](#)

[A467/A467M-01\(2006\) Standard Specification for Machine and Coil Chain - \(View Full Text\)](#)

[A469/A469M-06 Standard Specification for Vacuum-Treated Steel Forgings for Generator Rotors - \(View Full Text\)](#)

[A470/A470M-05e1 Standard Specification for Vacuum-Treated Carbon and Alloy Steel Forgings for Turbine Rotors and Shafts - \(View Full Text\)](#)

[A471-06 Standard Specification for Vacuum-Treated Alloy Steel Forgings for Turbine Rotor Disks and Wheels - \(View Full Text\)](#)

[A472/A472M-05 Standard Test Method for Heat Stability of Steam Turbine Shafts and Rotor Forgings - \(View Full Text\)](#)

[A485-03 Standard Specification for High Hardenability Antifriction Bearing Steel - \(View Full Text\)](#)

[A499-89\(2002\) Standard Specification for Steel Bars and Shapes, Carbon Rolled from "T" Rails - \(View Full Text\)](#)

[A503/A503M-01\(2006\) Standard Specification for Ultrasonic Examination of Forged Crankshafts - \(View Full Text\)](#)

[A504/A504M-04e1 Standard Specification for Wrought Carbon Steel Wheels - \(View Full Text\)](#)

[A508/A508M-05b Standard Specification for Quenched and Tempered Vacuum-Treated Carbon and Alloy Steel Forgings for Pressure Vessels - \(View Full Text\)](#)

[A521/A521M-06 Standard Specification for Steel, Closed-Impression Die Forgings for General Industrial Use - \(View Full Text\)](#)

[A531/A531M-91\(2006\) Standard Practice for Ultrasonic Examination of Turbine-Generator Steel Retaining Rings - \(View Full Text\)](#)

[A534-04 Standard Specification for Carburizing Steels for Anti-Friction Bearings - \(View Full Text\)](#)

[A541/A541M-05 Standard Specification for Quenched and Tempered Carbon and Alloy Steel Forgings for Pressure Vessel Components - \(View Full Text\)](#)

[A551/A551M-05 Standard Specification for Steel Tires - \(View Full Text\)](#)

[A561-71\(2004\) Standard Practice for Macrotech Testing of Tool Steel Bars - \(View Full Text\)](#)

[A575-96\(2002\) Standard Specification for Steel Bars, Carbon, Merchant Quality, M-Grades - \(View Full Text\)](#)

[A576-90b\(2006\) Standard Specification for Steel Bars, Carbon, Hot-Wrought, Special](#)

[Quality - \(View Full Text\)](#)

[A579/A579M-04a Standard Specification for Superstrength Alloy Steel Forgings - \(View Full Text\)](#)

[A592/A592M-04 Standard Specification for High-Strength Quenched and Tempered Low-Alloy Steel Forged Fittings and Parts for Pressure Vessels - \(View Full Text\)](#)

[A597-87\(2004\) Standard Specification for Cast Tool Steel - \(View Full Text\)](#)

[A600-92a\(2004\) Standard Specification for Tool Steel High Speed - \(View Full Text\)](#)

[A604-93\(2003\) Standard Test Method for Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets - \(View Full Text\)](#)

[A646/A646M-04 Standard Specification for Premium Quality Alloy Steel Blooms and Billets for Aircraft and Aerospace Forgings - \(View Full Text\)](#)

[A649/A649M-04 Standard Specification for Forged Steel Rolls Used for Corrugating Paper Machinery - \(View Full Text\)](#)

[A663/A663M-89\(2006\) Standard Specification for Steel Bars, Carbon, Merchant Quality, Mechanical Properties - \(View Full Text\)](#)

[A668/A668M-04 Standard Specification for Steel Forgings, Carbon and Alloy, for General Industrial Use - \(View Full Text\)](#)

[A675/A675M-03e1 Standard Specification for Steel Bars, Carbon, Hot-Wrought, Special Quality, Mechanical Properties - \(View Full Text\)](#)

[A681-94\(2004\) Standard Specification for Tool Steels Alloy - \(View Full Text\)](#)

[A686-92\(2004\) Standard Specification for Tool Steel, Carbon - \(View Full Text\)](#)

[A689-97\(2002\) Standard Specification for Carbon and Alloy Steel Bars for Springs - \(View Full Text\)](#)

[A696-90a\(2006\) Standard Specification for Steel Bars, Carbon, Hot-Wrought or Cold-Finished, Special Quality, for Pressure Piping Components - \(View Full Text\)](#)

[A700-05 Standard Practices for Packaging, Marking, and Loading Methods for Steel Products for Shipment - \(View Full Text\)](#)

[A702-89\(2006\) Standard Specification for Steel Fence Posts and Assemblies, Hot Wrought - \(View Full Text\)](#)

[A711-04 Standard Specification for Steel Forging Stock - \(View Full Text\)](#)

[A723/A723M-02 Standard Specification for Alloy Steel Forgings for High-Strength Pressure Component Application - \(View Full Text\)](#)

[A729/A729M-06 Standard Specification for Alloy Steel Axles, Heat-Treated, for Mass Transit and Electric Railway Service - \(View Full Text\)](#)

[A739-90a\(2006\) Standard Specification for Steel Bars, Alloy, Hot-Wrought, for Elevated Temperature or Pressure-Containing Parts, or Both - \(View Full Text\)](#)

[A745/A745M-94\(2003\) Standard Practice for Ultrasonic Examination of Austenitic Steel Forgings - \(View Full Text\)](#)

[A751-01\(2006\) Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products - \(View Full Text\)](#)

[A756-94\(2001\) Standard Specification for Stainless Anti-Friction Bearing Steel - \(View Full Text\)](#)

[A765/A765M-04 Standard Specification for Carbon Steel and Low-Alloy Steel Pressure-Vessel-Component Forgings with Mandatory Toughness Requirements - \(View Full Text\)](#)

[A768/A768M-05 Standard Specification for Vacuum-Treated 12 % Chromium Alloy Steel Forgings for Turbine Rotors and Shafts - \(View Full Text\)](#)

[A788/A788M-06 Standard Specification for Steel Forgings, General Requirements - \(View Full Text\)](#)

[A833-84\(2001\) Standard Practice for Indentation Hardness of Metallic Materials by](#)

[Comparison Hardness Testers - \(View Full Text\)](#)

[A837/A837M-06 Standard Specification for Steel Forgings, Alloy, for Carburizing Applications - \(View Full Text\)](#)

[A859/A859M-04 Standard Specification for Age-Hardening Alloy Steel Forgings for Pressure Vessel Components - \(View Full Text\)](#)

[A866-01 Standard Specification for Medium Carbon Anti-Friction Bearing Steel - \(View Full Text\)](#)

[A891-98\(2003\) Standard Specification for Precipitation Hardening Iron Base Superalloy Forgings for Turbine Rotor Disks and Wheels - \(View Full Text\)](#)

[A892-06 Standard Guide for Defining and Rating the Microstructure of High Carbon Bearing Steels - \(View Full Text\)](#)

[A906/A906M-02 Standard Specification for Grade 80 and Grade 100 Alloy Steel Chain Slings for Overhead Lifting - \(View Full Text\)](#)

[A909/A909M-06 Standard Specification for Steel Forgings, Microalloy, for General Industrial Use - \(View Full Text\)](#)

[A914/A914M-92\(2005\) Standard Specification for Steel Bars Subject to Restricted End-Quench Hardenability Requirements - \(View Full Text\)](#)

[A920/A920M-02a Standard Specification for Steel Bars, Microalloy, Hot-Wrought, Special Quality, Mechanical Properties - \(View Full Text\)](#)

[A921/A921M-93\(2005\) Standard Specification for Steel Bars, Microalloy, Hot-Wrought, Special Quality, for Subsequent Hot Forging - \(View Full Text\)](#)

[A939-96\(2006\) Standard Test Method for Ultrasonic Examination from Bored Surfaces of Cylindrical Forgings - \(View Full Text\)](#)

[A940/A940M-06 Standard Specification for Vacuum Treated Steel Forgings, Alloy, Differentially Heat Treated, for Turbine Rotors - \(View Full Text\)](#)

[A941-06a Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys - \(View Full Text\)](#)

[A952/A952M-02 Standard Specification for Forged Grade 80 and Grade 100 Steel Lifting Components and Welded Attachment Links - \(View Full Text\)](#)

[A956-06 Standard Test Method for Leeb Hardness Testing of Steel Products - \(View Full Text\)](#)

[A965/A965M-06a Standard Specification for Steel Forgings, Austenitic, for Pressure and High Temperature Parts - \(View Full Text\)](#)

[A966/A966M-96\(2006\) Standard Test Method for Magnetic Particle Examination of Steel Forgings Using Alternating Current - \(View Full Text\)](#)

[A973/A973M-01 Standard Specification for Grade 100 Alloy Steel Chain - \(View Full Text\)](#)

[A982/A982M-05 Standard Specification for Steel Forgings, Stainless, for Compressor and Turbine Airfoils - \(View Full Text\)](#)

[A983/A983M-06 Standard Specification for Continuous Grain Flow Forged Carbon and Alloy Steel Crankshafts for Medium Speed Diesel Engines - \(View Full Text\)](#)

[A986/A986M-01\(2006\) Standard Specification for Magnetic Particle Examination of Continuous Grain Flow Crankshaft Forgings - \(View Full Text\)](#)

[A1021/A1021M-05 Standard Specification for Martensitic Stainless Steel Forgings and Forging Stock for High-Temperature Service - \(View Full Text\)](#)

[A1038-05 Standard Practice for Portable Hardness Testing by the Ultrasonic Contact Impedance Method - \(View Full Text\)](#)

[A1040-06 Standard Guide for Specifying Harmonized Standard Grade Compositions for Wrought Carbon, Low-Alloy, and Alloy Steels - \(View Full Text\)](#)

[A1048/A1048M-06 Standard Specification for Pressure Vessel Forgings, Alloy Steel,](#)

[Higher Strength Chromium-Molybdenum-Tungsten for Elevated Temperature Service - \(View Full Text\)](#)

[A1049/A1049M-06 Standard Specification for Stainless Steel Forgings, Ferritic/Austenitic \(Duplex\), for Pressure Vessels and Related Components - \(View Full Text\)](#)

[E588-03 Standard Practice for Detection of Large Inclusions in Bearing Quality Steel by the Ultrasonic Method - \(View Full Text\)](#)

[E618-81\(2001\) Standard Method for Evaluating Machining Performance of Ferrous Metals Using an Automatic Screw/Bar Machine - \(View Full Text\)](#)

[SI Quick Reference Guide: International System of Units \(SI\) - \*The Modern Metric System\* - \(View Full Text\)](#)

### **Withdrawn Standards**

A331 Standard Specification for Steel Bars, Alloy, Cold-Finished (Withdrawn 2004)  
Replaced by A108

A730 Standard Specification for Forgings, Carbon and Alloy Steel, for Railway Use  
(Withdrawn 2004) Replaced by A668/A668M