

America Makes & ANSI Additive Manufacturing Standardization Collaborative (AMSC) Standards Landscape, February 2017			
Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
3MF Consortium	3D Manufacturing Format (3MF)	2015	Published
AAMI	ANSI/AAMI ST67:2011 Sterilization of health care products - Requirements and guidance for selecting a sterility assurance level (SAL) for products labeled 'sterile'	2011	Published
AAMI	ANSI/AAMI ST81:2004 (R2010) Sterilization of medical devices - Information to be provided by the manufacturer for the processing of resterilizable medical devices	2010	Published
AAMI	AAMI TIR12:2010 Designing, testing and labeling reusable medical devices for reprocessing in health care facilities: A guide for medical device manufacturers	2010	Published
AAMI	AAMI TIR17:2008 Compatibility of materials subject to sterilization	2008	Published
AAMI	AAMI TIR30:2011 A compendium of processes, materials, test methods, and acceptance criteria for cleaning reusable medical devices	2011	Published
AAMI	AAMI TIR37:2013 Sterilization of health care products-Radiation-Guidance on sterilization of biologics and tissue-based products	2013	Published
AAMI	ANSI/AAMI/ISO 10993-1:2009(R2013), Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process; Includes Erratum (2013)	2013	Published
AAMI	ANSI/AAMI/ISO 11135: 2014 Sterilization of health care products - Ethylene oxide - Requirements for development, validation and routine control of a sterilization process for medical device	2014	Published
AAMI	ANSI/AAMI/ISO 11137 - Sterilization of Health Care Products Package; ANSI/AAMI/ISO 11137-1, ANSI/AAMI/ISO 11137-2 and ANSI/AAMI/ISO 11137-3	various	Published
AAMI	ANSI/AAMI/ISO 11607-1:2006 (R2010) Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging (INCLUDES AMENDMENT 1)	2010	Published
AAMI	ANSI/AAMI/ISO 11607-2:2006 (R2010) Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes (INCLUDES AMENDMENT1)	2010	Published
AAMI	ANSI/AAMI/ISO 13022:2012 Medical products containing viable human cells - Application of risk management and requirements for processing practices	2012	Published
AAMI	ANSI/AAMI/ISO 13408 - Aseptic Processing of Health Care Products Package	various	Published
AAMI	ANSI/AAMI/ISO 14160:2011 Sterilization of health care products - Liquid chemical sterilizing agents for single-use medical devices utilizing animal tissues and their derivatives - Requirements for characterization, development, validation and routine control	2011	Published
AAMI	ANSI/AAMI/ISO 14937:2009 (R2013) Sterilization of healthcare products -General requirements for characterization of a sterilizing agent and the development, validation and routine control of a sterilization process for medical devices	2013	Published
AAMI	ANSI/AAMI/ISO 17665-1:2006 (R2013) Sterilization of health care products - Moist heat - Part1: Requirements for the development, validation, and routine control of a sterilization process for medical devices	2013	Published
AAMI	ANSI/AAMI/ISO 20857:2010 (R2015) Sterilization of health care products - Dry heat - Requirements for the development, validation and routine control of a sterilization process for medical devices	2015	Published
ACC	ANSI Z400.1/Z129.1-2010: Hazardous Workplace Chemicals - Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation	2010	Published
AIA	NAS 410 Rev.4 NAS Certification & Qualification of Nondestructive Test Personnel, 2014 Edition	2014	Published
ASME	ASME B16.5/ASME B16.10/ASME B16.34 - Valves and Fittings Package	various	Published

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ASME	ASME B31.1 / B31.3 Power and Process Piping Package	2016	Published
ASME B46	ASME B46.1-2009, Surface Texture (Surface Roughness, Waviness, and Lay)	2009	Published
ASME B89	ASME B89.4.23-201x, X-ray Computed Tomography (CT) Performance Evaluation Standard		(New) In Development
ASME B107	ASME B107.100-2010 Flat Wrenches	2010	Published
ASME B107	ASME B107.110-2012 Socket Wrenches, Handles, and Attachments	2012	Published
ASME B107	ASME B107.300-2010 (R2016) Torque Instruments	2016	Published
ASME B107	ASME B107.400-2008 Striking Tools	2008	Published
ASME B107	ASME B107.410-2008 Struck Tools	2008	Published
ASME B107	ASME B107.500-2010 Pliers	2010	Published
ASME B107	ASME B107.600-2016 Screwdrivers and Screwdriver Bits	2016	Published
ASME BPVC	ASME Boiler and Pressure Vessel Code - 2015 Edition	2015	Published
ASME V&V 40	ASME V&V 40, Assessing Credibility of Computational Models through Verification and Validation: Application to Medical Devices		(New) In Development
ASME V&V 50	ASME V&V 50, Verification and Validation of Computational Modeling for Advanced Manufacturing		(New) In Development
ASME Y14	ASME Y14.5:2009, Dimensioning and Tolerancing	2009	Published
ASME Y14	ASME Y14.6-2001 (R2013) Screw Thread Representation	2013	Published
ASME Y14	ANSI/ASME Y14.36M-1996 (R2008) Surface Texture Symbols	2008	Published
ASME Y14	ASME Y14.41:2012, Digital Product Definition Data Practices	2012	Published
ASME Y14	ASME Y14.41.1 3D Model Data Organization Schema		(New) In Development
ASME Y14	ASME Y14.46 - Product Definition for Additive Manufacturing		(New) In Development
ASME Y14	ASME Y14.48 Universal Direction and Load Indicators		(New) In Development
ASME Y14	ASME Y14.100-2013: Engineering Drawing Practices	2013	Published
ASTM	MNL45 Radiation Curing of Coatings	2002	Published
ASTM A01.14	ASTM A380/A390M-13 Standard Practice for Cleaning, Descaling, and Passivation of Stainless Steel Parts, Equipment, and Systems	2013	Published
ASTM A01.14	ASTM A967/A967M-13 Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts	2013	Published
ASTM A01.18	ASTM A1080-15 Standard Practice for Hot Isostatic Pressing of Steel, Stainless Steel, and Related Alloy Castings	2015	Published
ASTM A01.22	ASTM A988/A988M-16 Standard Specification for Hot Isostatically-Pressed Stainless Steel Flanges, Fittings, Valves, and Parts for High Temperature Service	2016	Published
ASTM A04.21	ASTM A247-16a Standard Test Method for Evaluating the Microstructure of Graphite in Iron Castings	2016	Published
ASTM B07.01	ASTM WK47205 New Guide for Hot Isostatic Pressing (HIP) of Aluminum Alloy Castings		(New) In Development
ASTM B07.05	ASTM B557-15 Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products	2015	Published

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ASTM B07.05	ASTM B645-10 (2015) Standard Practice for Linear-Elastic Plane-Strain Fracture Toughness Testing of Aluminum Alloys	2015	Published
ASTM B07.05	ASTM B646-12 Standard Practice for Fracture Toughness Testing of Aluminum Alloys	2012	Published
ASTM B07.05	ASTM B962-15, Standard Test Methods for Density of Compacted or Sintered Powder Metallurgy (PM) Products Using Archimedes' Principle	2015	Published
ASTM B07.05	ASTM B985-12, Standard Practice for Sampling Aluminum Ingots, Billets, Castings and Finished or Semi-Finished Wrought Aluminum Products for Compositional Analysis	2016	Published
ASTM B08.02	ASTM B851-04 (2014) Standard Specification for Automated Controlled Shot Peening of Metallic Articles Prior to Nickel, Autocatalytic Nickel, or Chromium Plating, or as Final Finish	2014	Published
ASTM B09.01	ASTM B243-16: Standard Terminology of Powder Metallurgy	2016	Published
ASTM B09.02	ASTM B212-13: Standard Test Method for Apparent Density of Free-Flowing Metal Powders Using the Hall Flowmeter Funnel	2013	Published
ASTM B09.02	ASTM B213-13: Standard Test Methods for Flow Rate of Metal Powders Using the Hall Flowmeter Funnel	2013	Published
ASTM B09.02	ASTM B215-15: Standard Practices for Sampling Metal Powders	2015	Published
ASTM B09.02	ASTM B822-10: Standard Test Method for Particle Size Distribution of Metal Powders and Related Compounds by Light Scattering	2010	Published
ASTM B09.02	ASTM B855-11: Standard Test Method for Volumetric Flow Rate of Metal Powders Using the Arnold Meter and Hall Flowmeter Funnel	2011	Published
ASTM B09.02	ASTM B964-16: Standard Test Methods for Flow Rate of Metal Powders Using the Carney Funnel	2016	Published
ASTM B09.03	ASTM B527-15: Standard Test Method for Tap Density of Metal Powders and Compounds	2015	Published
ASTM B09.04	ASTM B946-11(2016), Standard Test Method for Surface Finish of Powder Metallurgy (PM) Products	2016	Published
ASTM B09.05	ASTM E3-11, Standard Guide for Preparation of Metallographic Specimens	2011	Published
ASTM B09.11	ASTM B311-13 Standard Test Method for Density of Powder Metallurgy (PM) Materials Containing Less Than Two Percent Porosity	2013	Published
ASTM B10.01	ASTM B600-11 Standard Guide for Descaling and Cleaning Titanium and Titanium Alloy Surfaces	2011	Published
ASTM D01.24	ASTM D4144-94(2014) Standard Test Method for Estimating Package Stability of Coatings for Ultraviolet Curing	2014	Published
ASTM D01.46	ASTM D4417-14 Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel	2014	Published
ASTM D01.46	ASTM D7127-13, Standard Test Method for Measurement of Surface Roughness of Abrasive Blast Cleaned Metal Surfaces Using a Portable Stylus Instrument	2013	Published
ASTM D01.55	ASTM D3732-82(2011) Standard Practice for Reporting Cure Times of Ultraviolet-Cured Coatings	2011	Published
ASTM D01.55	ASTM D5403-93(2013) Standard Test Methods for Volatile Content of Radiation Curable Materials	2013	Published
ASTM D09.12	ASTM D150-11 Standard Test Methods for AC Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulation	2011	Published
ASTM D09.12	ASTM D257-14 Standard Test Methods for DC Resistance or Conductance of Insulating Materials	2014	Published
ASTM D10.21	ASTM F2825-10(2015) Standard Practice for Climatic Stressing of Packaging Systems for Single Parcel Delivery	2015	Published
ASTM D10.21	ASTM D4169-16 Standard Practice for Performance Testing of Shipping Containers and Systems	2016	Published
ASTM D12.16	ASTM D7225-13 Standard Guide for Blood Cleaning Efficiency of Detergents and Washer-Disinfectors	2013	Published
ASTM D18.24	ASTM D6128-16: Standard Test Method for Shear Testing of Bulk Solids Using the Jenike Shear Tester	2016	Published
ASTM D18.24	ASTM D6393-14 Standard Test Method for Bulk Solids Characterization by Carr Indices	2014	Published

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ASTM D18.24	ASTM D6682-08: Standard Test Method for Measuring Shear Stresses of Powders Using Peschl Rotational Split Level Shear Tester	2008	Published
ASTM D18.24	ASTM 6683-14 Standard Test Method for Measuring Bulk Density Values of Powders and Other Bulk Solids as Function of Compressive Stress	2014	Published
ASTM D18.24	ASTM D6773-16: Standard Test Method for Bulk Solids Using Schulze Ring Shear Tester	2016	Published
ASTM D18.24	ASTM D6940-10 Standard Practice for Measuring Sifting Segregation Tendencies of Bulk Solids	2010	Published
ASTM D18.24	ASTM D6941-12 Standard Practice for Measuring Fluidization Segregation Tendencies of Powders	2012	Published
ASTM D18.24	ASTM D7481-09 Standard Test Methods for Determining Loose and Tapped Bulk Densities of Powders using a Graduated Cylinder	2009	Published
ASTM D18.24	ASTM D7743-12 Standard Test Method for Measuring the Minimum Fluidization Velocities of Free Flowing Powders	2012	Published
ASTM D18.24	ASTM D7891-15: Standard Test Method for Shear Testing of Powders Using the Freeman Technology FT4 Powder Rheometer Shear Cell	2015	Published
ASTM D18.24	ASTM WK41539 Revision of D6682 - 08 Standard Test Method for Measuring Shear Stresses of Powders Using Peschl Rotational Split Level Shear Tester		(Revision) In Development
ASTM D18.24	ASTM WK50227 New Guide for Shear Cell Testing		(New) In Development
ASTM D20.10	ASTM D638-14 Standard Test Method for Tensile Properties of Plastics	2014	Published
ASTM D20.10	ASTM D4473-08(2016) Standard Test Method for Plastics: Dynamic Mechanical Properties: Cure Behavior	2016	Published
ASTM D20.30	ASTM D3795-00a (2012) Standard Test Method for Thermal Flow, Cure, and Behavior Properties of Pourable Thermosetting Materials by Torque Rheometer	2012	Published
ASTM D30.04	ASTM D7028-07(2015) Standard Test Method for Glass Transition Temperature (DMA Tg) of Polymer Matrix Composites by Dynamic Mechanical Analysis (DMA)	2015	Published
ASTM E01.01	ASTM E322-12: Standard Test Method for Analysis of Low-Alloy Steels and Cast Irons by Wavelength Dispersive X-Ray Fluorescence Spectrometry	2012	Published
ASTM E01.01	ASTM E353-14: Standard Test Methods for Chemical Analysis of Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys	2014	Published
ASTM E01.01	ASTM E572-13: Standard Test Method for Analysis of Stainless and Alloy Steels by Wavelength Dispersive X-Ray Fluorescence Spectrometry	2013	Published
ASTM E01.01	ASTM E1019-11: Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Fusion Techniques	2011	Published
ASTM E01.01	ASTM E1085-16 Standard Test Method for Analysis of Low-Alloy Steels by Wavelength Dispersive X-Ray Fluorescence Spectrometry	2016	Published
ASTM E01.04	ASTM E34-11e1 Standard Test Methods for Chemical Analysis of Aluminum and Aluminum-Base Alloys	2011	Published
ASTM E01.04	ASTM E1251-11 Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry	2011	Published
ASTM E01.06	ASTM E539-11: Standard Test Method for Analysis of Titanium Alloys by X-Ray Fluorescence Spectrometry	2011	Published
ASTM E01.06	ASTM E1409-13: Standard Test Method for Determination of Oxygen and Nitrogen in Titanium and Titanium Alloys by Inert Gas Fusion	2013	Published

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ASTM E01.06	ASTM E1447-09(2016): Standard Test Method for Determination of Hydrogen in Titanium and Titanium Alloys by Inert Gas Fusion Thermal Conductivity/Infrared Detection Method	2016	Published
ASTM E01.06	ASTM E1941-10: Standard Test Method for Determination of Carbon in Refractory and Reactive Metals and Their Alloys by Combustion Analysis	2010	Published
ASTM E01.06	ASTM E2371-13: Standard Test Method for Analysis of Titanium and Titanium Alloys by Direct Current Plasma and Inductively Coupled Plasma Atomic Emission Spectrometry (Performance-Based Test Methodology)	2013	Published
ASTM E01.08	ASTM E2465-13: Standard Test Method for Analysis of Ni-Base Alloys by Wavelength Dispersive X-Ray Fluorescence Spectrometry	2013	Published
ASTM E01.08	ASTM E2594-09 (2014): Standard Test Method for Analysis of Nickel Alloys by Inductively Coupled Plasma Atomic Emission Spectrometry (Performance-Based Method)	2014	Published
ASTM E01.08	ASTM E2823-11: Standard Test Method for Analysis of Nickel Alloys by Inductively Coupled Plasma Mass Spectrometry (Performance-Based Method)	2011	Published
ASTM E01.20	ASTM E1097-12 Standard Guide for Determination of Various Elements by Direct Current Plasma Atomic Emission Spectrometry	2012	Published
ASTM E01.20	ASTM E1479-16: Standard Practice for Describing and Specifying Inductively-Coupled Plasma Atomic Emission Spectrometers	2016	Published
ASTM E04.01	ASTM WK50113, Revision of E3 - 11 Standard Guide for Preparation of Metallographic Specimens		(Revision) In Development
ASTM E04.01	ASTM E407-07(2015)e1, Standard Practice for Microetching Metals and Alloys	2015	Published
ASTM E04.01	ASTM E384-16, Standard Test Method for Microindentation Hardness of Materials	2016	Published
ASTM E04.05	ASTM WK47301, New Guide for Nondestructive Testing of Additive Manufactured Metal Parts Used in Aerospace Applications		(New) In Development
ASTM E04.08	ASTM E112-13 Standard Test Methods for Determining Average Grain Size	2013	Published
ASTM E04.08	ASTM E930-99(2015) Standard Test Methods for Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size)	2015	Published
ASTM E04.08	ASTM E1181-02 (2015) Standard Test Methods for Characterizing Duplex Grain Sizes	2015	Published
ASTM E04.11	ASTM E2627-13 Standard Practice for Determining Average Grain Size Using Electron Backscatter Diffraction (EBSD) in Fully Recrystallized Polycrystalline Materials	2013	Published
ASTM E04.14	ASTM E1268-01(2016) Standard Practice for Assessing the Degree of Banding or Orientation of Microstructures	2016	Published
ASTM E04.14	ASTM E1382-97 (2015) Standard Test Methods for Determining Average Grain Size Using Semiautomatic and Automatic Image Analysis	2015	Published
ASTM E07.01	ASTM E1030/E1030M-15: Standard Practice for Radiographic Examination of Metallic Castings	2015	Published
ASTM E07.01	ASTM E1570-11: Standard Practice for Computed Tomographic (CT) Examination	2011	Published
ASTM E07.01	ASTM E1742/E1742M-12 Standard Practice for Radiographic Examination	2012	Published
ASTM E07.01	ASTM E1814-14: Standard Practice for Computed Tomographic (CT) Examination of Castings	2014	Published
ASTM E07.01	ASTM E2160-04(2012) Standard Test Method for Heat of Reaction of Thermally Reactive Materials by Differential Scanning Calorimetry	2012	Published
ASTM E07.01	ASTM E2550-11 Standard Test Method for Thermal Stability by Thermogravimetry	2011	Published

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ASTM E07.02	ASTM E466-15: Standard Practice for Conducting Force Controlled Constant Amplitude Axial Fatigue Tests of Metallic Materials	2015	Published
ASTM E07.02	ASTM E1320-15 Standard Reference Radiographs for Titanium Castings	2015	Published
ASTM E07.03	ASTM E1444/E1444M-16e1 Standard Practice for Magnetic Particle Testing	2016	Published
ASTM E07.06	ASTM E127-15 Standard Practice for Fabrication and Control of Aluminum Alloy Ultrasonic Standard Reference Blocks	2015	Published
ASTM E07.06	ASTM E428-08 (2013) Standard Practice for Fabrication and Control of Metal, Other than Aluminum, Reference Blocks Used in Ultrasonic Testing	2013	Published
ASTM E07.06	ASTM E2375-08 (2013) Standard Practice for Ultrasonic Testing of Wrought Products	2013	Published
ASTM E07.10	ASTM E1640-13 Standard Test Method for Assignment of the Glass Transition Temperature By Dynamic Mechanical Analysis	2013	Published
ASTM E07.10	ASTM E1824-13 Standard Test Method for Assignment of a Glass Transition Temperature Using Thermomechanical Analysis: Tension Method	2013	Published
ASTM E07.10	ASTM E2533-16 Standard Guide for Nondestructive Testing of Polymer Matrix Composites Used in Aerospace Applications	2016	Published
ASTM E07.10	ASTM WK47031 New Guide for Nondestructive Testing of Additive Manufactured Metal Parts Used in Aerospace Applications		(New) In Development
ASTM E07.92	ASTM E1316-16a Standard Terminology for Nondestructive Examinations	2016	Published
ASTM E08.03	ASTM E467-08 (2014) Standard Practice for Verification of Constant Amplitude Dynamic Forces in an Axial Fatigue Testing System	2014	Published
ASTM E08.05	ASTM E468-11 Standard Practice for Presentation of Constant Amplitude Fatigue Test Results for Metallic Materials	2011	Published
ASTM E08.05	ASTM E606/E606M-12 Standard Test Method for Strain-Controlled Fatigue Testing	2012	Published
ASTM E08.06	ASTM E647-15e1 Standard Test Method for Measurement of Fatigue Crack Growth Rates	2015	Published
ASTM E08.07	ASTM E399-12e3 Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness K_{Ic} of Metallic Materials	2012	Published
ASTM E08.07	ASTM E561-15a Standard Test Method for KR Curve Determination	2015	Published
ASTM E10.05	ASTM E562-11 Standard Test Method for Determining Volume Fraction by Systematic Manual Point Count	2011	Published
ASTM E11.20	ASTM E691-16 Standard Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method	2016	Published
ASTM E21.05	ASTM E595-15 Standard Test Method for Total Mass Loss and Collected Volatile Condensable Materials from Outgassing in a Vacuum Environment	2015	Published
ASTM E21.05	ASTM E1559-09(2016) Standard Test Method for Contamination Outgassing Characteristics of Spacecraft Materials	2016	Published
ASTM E28.04	ASTM E8/E8M-16a, Standard Test Methods for Tension Testing of Metallic Materials	2016	Published
ASTM E28.04	ASTM E9-09 Standard Test Methods of Compression Testing of Metallic Materials at Room Temperature	2009	Published
ASTM E28.06	ASTM E10-15a Standard Test Method for Brinell Hardness of Metallic Materials	2015	Published
ASTM E28.06	ASTM E18-16, Standard Test Methods for Rockwell Hardness of Metallic Materials	2016	Published
ASTM E35.15	ASTM E2314-03(2014) Standard Test Method for Determination of Effectiveness of Cleaning Processes for Reusable Medical Instruments Using a Microbiologic Method (Simulated Use Test)	2014	Published
ASTM E37.01	ASTM E2602-09(2015) Standard Test Methods for the Assignment of the Glass Transition Temperature by Modulated Temperature Differential Scanning Calorimetry	2015	Published

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ASTM E37.03	ASTM E2161-15, Standard Terminology Relating to Performance Validation in Thermal Analysis and Rheology	2015	Published
ASTM E37.10	ASTM E1356-08(2014) Standard Test Method for Assignment of the Glass Transition Temperatures by Differential Scanning Calorimetry	2014	Published
ASTM E37.10	ASTM E1545-11 (2016) Standard Test Method for Assignment of the Glass Transition Temperature by Thermomechanical Analysis	2016	Published
ASTM F02.15	ASTM F1608-16 Standard Test Method for Microbial Ranking of Porous Packaging Materials (Exposure Chamber Method)	2016	Published
ASTM F02.15	ASTM F2475-11 Standard Guide for Biocompatibility Evaluation of Medical Device Packaging Materials	2011	Published
ASTM F02.15	ASTM F2638-12e1 Standard Test Method for Using Aerosol Filtration for Measuring the Performance of Porous Packaging Materials as a Surrogate Microbial Barrier	2012	Published
ASTM F02.20	ASTM F88/F88M-15 Standard Test Method for Seal Strength of Flexible Barrier Materials	2015	Published
ASTM F02.20	ASTM F1140/F1140M-13 Standard Test Methods for Internal Pressurization Failure Resistance of Unrestrained Packages	2013	Published
ASTM F02.20	ASTM F2054/F2054M-13 Standard Test Method for Burst Testing of Flexible Package Seals Using Internal Air Pressurization Within Restraining Plates	2013	Published
ASTM F02.20	ASTM F2203-13 Standard Test Method for Linear Measurement Using Precision Steel Rule	2013	Published
ASTM F02.20	ASTM F2217/F2217M-13 Standard Practice for Coating/Adhesive Weight Determination	2013	Published
ASTM F02.20	ASTM F2250-13 Standard Practice for Evaluation of Chemical Resistance of Printed Inks and Coatings on Flexible Packaging Materials	2013	Published
ASTM F02.20	ASTM F2251-13 Standard Test Method for Thickness Measurement of Flexible Packaging Material	2013	Published
ASTM F02.20	ASTM F2252/F2252M-13e1 Standard Practice for Evaluating Ink or Coating Adhesion to Flexible Packaging Materials Using Tape	2013	Published
ASTM F02.40	ASTM F1886/F1886M-16 Standard Test Method for Determining Integrity of Seals for Flexible Packaging by Visual Inspection	2016	Published
ASTM F02.40	ASTM F1929-15 Standard Test Method for Detecting Seal Leaks in Porous Medical Packaging by Dye Penetration	2015	Published
ASTM F02.40	ASTM F2095-07(2013) Standard Test Methods for Pressure Decay Leak Test for Flexible Packages With and Without Restraining Plates	2013	Published
ASTM F02.40	ASTM F2096-11 Standard Test Method for Detecting Gross Leaks in Packaging by Internal Pressurization (Bubble Test)	2011	Published
ASTM F02.40	ASTM F2228-13 Standard Test Method for Non-Destructive Detection of Leaks in Packaging Which Incorporates Porous Barrier Material by CO2 Tracer Gas Method	2013	Published
ASTM F02.40	ASTM F2338-09(2013) Standard Test Method for Nondestructive Detection of Leaks in Packages by Vacuum Decay Method	2013	Published
ASTM F02.40	ASTM F2391-05(2016) Standard Test Method for Measuring Package and Seal Integrity Using Helium as the Tracer Gas	2016	Published
ASTM F02.40	ASTM D3078-02(2013) Standard Test Method for Determination of Leaks in Flexible Packaging by Bubble Emission	2013	Published
ASTM F02.50	ASTM F17-13a Standard Terminology Relating to Flexible Barrier Packaging	2013	Published
ASTM F02.50	ASTM F1980-16 Standard Guide for Accelerated Aging of Sterile Barrier Systems for Medical Devices	2016	Published
ASTM F02.50	ASTM 2097-16 Standard Guide for Design and Evaluation of Primary Flexible Packaging for Medical Products	2016	Published

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ASTM F04.11	ASTM F2042-00(2011) Standard Guide for Silicone Elastomers, Gels, and Foams Used in Medical Applications Part II—Crosslinking and Fabrication	2011	Published
ASTM F04.12	ASTM F86-13 Standard Practice for Surface Preparation and Marking of Metallic Surgical Implants	2013	Published
ASTM F04.15	ASTM F2459-12 Standard Test Method for Extracting Residue from Metallic Medical Components and Quantifying via Gravimetric Analysis	2012	Published
ASTM F04.15	ASTM F2847-10 Standard Practice for Reporting and Assessment of Residues on Single Use Implants	2010	Published
ASTM F04.15	ASTM F3127-16 Standard Guide for Validating Cleaning Processes Used During the Manufacture of Medical Devices	2016	Published
ASTM F04.15	ASTM WK50782 New Practice for /Guide for Standard Test Soils for Validation of Cleaning Methods for Reusable Medical Devices		(New) In Development
ASTM F04.44	ASTM F2884-12 Standard Guide for Pre-clinical in vivo Evaluation of Spinal Fusion	2012	Published
ASTM F07.04	ASTM F519-13 Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating/Coating Processes and Service Environments	2013	Published
ASTM F07.04	ASTM F1459-06(2012) Standard Test Method for Determination of the Susceptibility of Metallic Materials to Hydrogen Gas Embrittlement (HGE)	2012	Published
ASTM F07.04	ASTM F1624-12 Standard Test Method for Measurement of Hydrogen Embrittlement Threshold in Steel by the Incremental Step Loading Technique	2012	Published
ASTM F07.04	ASTM F2078-15 Standard Terminology Relating to Hydrogen Embrittlement Testing	2015	Published
ASTM F25.11	ASTM F1330-91 (2012) Standard Guide for Metallic Abrasive Blasting to Descale the Interior of Pipe	2012	Published
ASTM F42.01	ASTM F2971-13, Standard Practice for Reporting Data for Test Specimens Prepared by Additive Manufacturing	2013	Published
ASTM F42.01	ASTM F3122-14, Standard Guide for Evaluating Mechanical Properties of Metal Materials Made via Additive Manufacturing Processes	2014	Published
ASTM F42.01	ASTM WK49229, New Guide for Orientation and Location Dependence Mechanical Properties for Metal Additive Manufacturing		(New) In Development
ASTM F42.01	ASTM WK5297 New Guide for Additive Manufacturing -- General Principles -- Standard Test Artefacts for Additive Manufacturing		(New) In Development
ASTM F42.01	ASTM WK55610 New Test Methods for the Characterization of Powder Flow Properties for Additive Manufacturing Applications		(New) In Development
ASTM F42.01	ASTM WK56649, New Guide for Standard Practice/Guide for Intentionally Seeding Flaws in Additively Manufactured (AM) Parts		(New) In Development
ASTM F42.04	ASTM WK38342, New Guide for Design for Additive Manufacturing	late 2016-early 2017	(New) In Development
ASTM F42.04	ASTM WK48549, New Specification for AMF Support for Solid Modeling: Voxel Information, Constructive Solid Geometry Representations and Solid Texturing		(New) In Development
ASTM F42.04	ASTM WK54856, New Guide for Principles of Design Rules in Additive Manufacturing	late 2017-early 2018	(New) In Development
ASTM F42.05	ASTM F2924-14, Standard Specification for Additive Manufacturing Titanium-6 Aluminum-4 Vanadium with Powder Bed Fusion	2014	Published
ASTM F42.05	ASTM F3001-14, Standard Specification for Additive Manufacturing Titanium-6 Aluminum-4 Vanadium ELI (Extra Low Interstitial) with Powder Bed Fusion	2014	Published

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Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
ASTM F42.05	ASTM F3049-14, Standard Guide for Characterizing Properties of Metal Powders Used for Additive Manufacturing Processes	2014	Published
ASTM F42.05	ASTM F3055-14a, Standard Specification for Additive Manufacturing Nickel Alloy (UNS N07718) with Powder Bed Fusion	2014	Published
ASTM F42.05	ASTM F3056-14e1, Standard Specification for Additive Manufacturing Nickel Alloy (UNS N06625) with Powder Bed Fusion	2014	Published
ASTM F42.05	ASTM F3091/F3091M-14, Standard Specification for Powder Bed Fusion of Plastic Materials	2014	Published
ASTM F42.05	ASTM F3184-16 Standard Specification for Additive Manufacturing Stainless Steel Alloy (UNS S31603) with Powder Bed Fusion	2016	Published
ASTM F42.05	ASTM F3187-16, Standard Guide for Directed Energy Deposition of Metals	2016	Published
ASTM F42.05	ASTM WK37654 New Guide for Directed Energy Deposition of Metals	late 2016-early 2017	(New) In Development
ASTM F42.05	ASTM WK48732, New Specification for Additive Manufacturing Stainless Steel Alloy (UNS S31603) with Powder Bed Fusion		(New) In Development
ASTM F42.05	ASTM WK51282, New Guide for Additive Manufacturing, General Principles, Requirements for Purchased AM Parts		(New) In Development
ASTM F42.05	ASTM WK51329, New Specification for Additive Manufacturing Cobalt-28 Chromium-6 Molybdenum Alloy (UNS R30075) with Powder Bed Fusion1		(New) In Development
ASTM F42.05	ASTM WK53423, New Specification for Additive Manufacturing AISi10Mg with Powder Bed Fusion		(New) In Development
ASTM F42.05	ASTM WK53878 New Specification for Additive Manufacturing - Material Extrusion Based Additive Manufacturing of Plastic Materials - Part 1: Feedstock materials		(New) In Development
ASTM G01.05	ASTM B117-16 Standard Practice for Operating Salt Spray (Fog) Apparatus	2016	Published
ASTM G01.06	ASTM G142-98(2016) Standard Test Method for Determination of Susceptibility of Metals to Embrittlement in Hydrogen Containing Environments at High Pressure, High Temperature, or Both	2016	Published
AWS B2	AWS B2.1/B2.1M:2014 Specification for Welding Procedure and Performance Qualification	2014	Published
AWS D1	AWS D1.1/D1.1M:2015 Structural Welding Code -Steel (second printing)	2015	Published
AWS D1	AWS D1.2/D1.2M:2014 Structural Welding Code - Aluminum	2014	Published
AWS D17	AWS D17.1/D17.1M:2010 Amd1 Specification for Fusion Welding for Aerospace Applications	2010	Published
AWS D20	AWS D20.1, Standard for Fabrication of Metal Components using Additive Manufacturing		(New) In Development
Battelle	Metallic Materials Properties Development and Standardization (MMPDS) Handbook	2016	Published
CEN	CSN EN 14242 Aluminium and aluminium alloys - Chemical analysis - Inductively coupled plasma optical emission spectral analysis	2014	Published
DMSC	ANSI QIF v2.1 2016	2016	Published
DoD	Defense Federal Acquisition Regulation Supplement (DFARS) Publication Notice 20160802; Detection and Avoidance of Counterfeit Electronic Parts-Further Implementation (DFARS Case 2014-D005	2016	Published
DoD	Depot Source of Repair (DSOR): A Guide for Acquisition Personnel- DTD Oct 05	2005	Published
DoD	DoD Directive 8320.03 Unique Identification (UID) Standards for Supporting DoD Net-Centric Operations	2015	Published

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DoD	MIL-STD-1907(4) NOT 3, Inspection, Liquid Penetrant And Magnetic Particle, Soundness Requirements For Materials, Parts And Weldments	2014	Published
DoD	MIL-STD-3021(2), Materials Deposition, Cold Spray	2015	Published
DoD	MIL-STD-3049(1), Materials Deposition, DDM: Direct Deposition of Metal for Remanufacture, Restoration and Recoating	2014	Published
DoD	MIL-STD-31000A, Technical Data Packages		
FDA	Technical Considerations for Additive Manufactured Devices, Draft Guidance for Industry and Food and Drug Administration Staff	2016	Published
FDA	FDA Quality System (QS) Regulation/Medical Device Good Manufacturing Practices	1996	Published
FDA	Use of International Standard ISO 10933-1, Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process	2016	Published
FDA	21 CFR 800-1099		Published
HL7	HL7 Standard for CDA® Release 2: Imaging Integration; Basic Imaging Reports in CDA and DICOM, Release 1	2009	Published
IEEE P1838 C/TT/3DT-WG	IEEE P1838 - Standard for Test Access Architecture for Three-Dimensional Stacked Integrated Circuits		(New) In Development
IEEE P3030 CES/SC/C3DP	IEEE P3030 - Standard for Consumer 3D Printing: Overview and Architecture		(New) In Development
IEEE P3333 C/SAB/3333-2_WG	IEEE 3333.2.1-2015: IEEE Recommended Practice for Three-Dimensional (3D) Medical Modeling	2015	Published
IEEE P3333 C/SAB/3333-2_WG	IEEE P3333.2.2 - Standard for Three-Dimensional (3D) Medical Visualization		(New) In Development
IEEE P3333 C/SAB/3333-2_WG	IEEE P3333.2.3 - Standard for Three-Dimensional (3D) Medical Data Management		(New) In Development
IEEE P3333 C/SAB/3333-2_WG	IEEE P3333.2.4 - Standard for Three-Dimensional (3D) Medical Simulation		(New) In Development
IEEE P3333 C/SAB/3333-2_WG	IEEE P3333.2.5 - Standard for Bio-CAD File Format for Medical Three-Dimensional (3D) Printing		(New) In Development
IEEE-ISTO PWG	PWG 5100.12-2015: IPP 2.0, 2.1, and 2.2	2015	Published
IEEE-ISTO PWG	PWG 5100.20-2016: IPP Everywhere Printer Self-Certification Manual v1.0 (SELFCERT)	2016	Published
IEEE-ISTO PWG	PWG 5100.21-2017: IPP 3D Printing Extensions v1.0 (3D)	2017	Published
IPC D-11	IPC 2223C-2011 Sectional Design Standard for Flexible Printed Boards	2011	Published
IPC D31b	IPC 2221B-2012 Generic Standard on Printed Board Design	2012	Published
IPC D31b	IPC 2222A-2010 Sectional Design Standard for Rigid Organic Printed Boards	2010	Published
IPC D-61	IPC/JPCA 2291-2013, Design Guidelines for Printed Electronics	2013	Published
IPC D-61	IPC-2292, Design Standard for Printed Electronics on Flexible Substrates		(New) In Development
IPC D-62	IPC/JPCA 4921-2012, Requirements for Printed Electronics Base Materials (Substrates)	2012	Published
IPC D-62	IPC-4921A, Requirements for Printed Electronics Base Materials		(Revision) In Development

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Developer	Designation / Title of Standard, Specification, or Other Publication	Publication Date / Target Date	Publication Status
IPC D-63	IPC/JPCA 4591-2012, Requirements for Printed Electronics Functional Conductive Materials	2012	Published
IPC D-63	IPC-4591A, Requirements for Printed Electronics Functional Conductive Materials		(Revision) In Development
IPC D-64	IPC-6902, Qualification and Performance Specifications for Printed Electronics (Additive Circuitry)		(New) In Development
IPC D-64a	IPC/JPCA 6901-2015, Application Categories for Printed Electronics	2015	Published
IPC D-64a	IPC 6903-2015, Terms and Definitions for the Design and Manufacture of Printed Electronics (Additive Circuitry)	2015	Published
IPC D-64a	IPC-6903A Terms and Definitions for Design, Production and Performance of Printed Electronics		(Revision) In Development
IPC D-65	IPC TM-650-2007 Test Methods Manual	2007	Published
IPC D-65	IPC-9204, Guideline on Flexibility and Stretchability Test Methods for Printed Electronics		(New) In Development
IPC D-66	IPC/SGIA-5222, Process Guideline for Screen Printing for Printed Electronics (Additive Manufacturing)		(New) In Development
ISO/CASCO	ISO/IEC 17000:2004 Conformity assessment - Vocabulary and general principles	2004	Published
ISO/CASCO	ISO/IEC 17025:2005, General requirement for the competence of testing and calibration laboratories	2005	Published
ISO/TC 10	ISO 16792:2015, Technical product documentation -- Digital product definition data practices	2015	Published
ISO/TC 10	ISO/DIS 8887-1 Technical product documentation - Design for manufacturing, disassembling and end-of-lif processing - Part 1: General concepts and requirements	2016	Published
ISO/TC 24/SC 4	ISO 9276:Parts 1-6, Representation of results of particle size analysis	various	Published
ISO/TC 24/SC 4	ISO 13320:2009, Particle size analysis - Laser diffraction methods	2009	Published
ISO/TC 35/SC 12	ISO 8503-2:2012, Preparation of steel substrates before application of paints and related products - Surface roughness characteristics of blast-cleaned steel substrates - Part 2: Method for the grading of surface profile of abrasive blast-cleaned steel -	2012	Published
ISO/TC 44/SC 10	ISO 15609-1:2004 Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 1: Arc welding	2004	Published
ISO/TC 44/SC 14	Welding for aerospace applications - Qualification of laser beam machines for metal powder bed additive manufacturing		New (In Development)
ISO/TC 51/SC 12	ISO 14322:2012 Plastics - Epoxy resins - Determination of degree of crosslinking of crosslinked epoxy resins by differential scanning calorimetry	2012	Published
ISO/TC 69/SC 6	ISO 5725, Accuracy of Measurement Methods and Results Package	various	Published
ISO/TC 69/SC 6	ISO 21748:2010, Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty estimation	2010	Published
ISO/TC 69/SC 7	ISO/TR 12888:2011, Selected illustrations of gauge repeatability and reproducibility studies	2011	Published
ISO/TC 108/SC 5	ISO 13379-1:2012, Condition monitoring and diagnostics of machines - Data interpretation and diagnostics techniques - Part 1: General guidelines	2012	Published
ISO/TC 108/SC 5	ISO 13381-1:2015, Condition monitoring and diagnostics of machines - Prognostics - Part 1: General guidelines	2015	Published
ISO/TC 119/SC 2	ISO 3923-1:2008, Metallic powders - Determination of apparent density - Part 1: Funnel method	2008	Published

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ISO/TC 119/SC 2	ISO 3927:2011, Metallic powders, excluding powders for hardmetals -- Determination of compressibility in uniaxial compression	2011	Published
ISO/TC 119/SC 2	ISO 3953:2011, Metallic powders - Determination of tap density	2011	Published
ISO/TC 119/SC 2	ISO 4490:2014, Metallic powders - Determination of flow rate by means of a calibrated funnel (Hall flowmeter)	2014	Published
ISO/TC 119/SC 2	ISO 4497:1983, Metallic powders -- Determination of particle size by dry sieving	1983	Published
ISO/TC 119/SC 3	ISO 2738:1999, Sintered metal materials, excluding hardmetals -- Permeable sintered metal materials -- Determination	1999	Published
ISO/TC 119/SC 3	ISO 2740:2009, Sintered metal materials, excluding hardmetals -- Tensile test pieces	2009	Published
ISO/TC 119/SC 3	ISO 4498:2010, Sintered metal materials, excluding hardmetals -- Determination of apparent hardness and microhardness	2010	Published
ISO/TC 138/SC 5	ISO 10147:2011 Pipes and fittings made of crosslinked polyethylene (PE-X) - Estimation of the degree of crosslinking by determination of the gel content	2011	Published
ISO/TC 150/SC 6	ISO 14708-1:2014 Implants for surgery - Active implantable medical devices - Part 1: General requirements for safety, marking and for information to be provided by the manufacturer	2014	Published
ISO/TC 164/SC 3	ISO 6506-1:2014, Metallic materials -- Brinell hardness test -- Part 1: Test method	2014	Published
ISO/TC 164/SC 3	ISO 6507-1:2005, Metallic materials -- Vickers hardness test -- Part 1: Test method	2005	Published
ISO/TC 164/SC 3	ISO 6508-1:2016, Metallic materials -- Rockwell hardness test -- Part 1: Test method	2016	Published
ISO/TC 164/SC 3	ISO 6508-2:2015, Metallic materials -- Rockwell hardness test -- Part 2: Verification and calibration of testing machines and indenters	2015	Published
ISO/TC 164/SC 3	ISO 6508-3:2015, Metallic materials -- Rockwell hardness test -- Part 3: Calibration of reference blocks	2015	Published
ISO/TC 176/SC 1	ISO 9000:2015, Quality management systems - Fundamentals and vocabulary	2015	Published
ISO/TC 184/SC4	ISO 10303-203:2011, Industrial automation systems and integration - Product data representation and exchange - Part 203: Application protocol: Configuration controlled 3D design of mechanical parts and assemblies	2011	Published
ISO/TC 184/SC4	ISO 10303-238:2007, Industrial automation systems and integration - Product data representation and exchange - Part 238: Application protocol: Application interpreted model for computerized numerical controllers	2007	Published
ISO/TC 184/SC4	ISO 10303-242:2014, Industrial automation systems and integration -- Product data representation and exchange -- Part 242: Application protocol: Managed model-based 3D engineering	2014	Published
ISO/TC 194	ISO 10993-1:2009, Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process	2009	Published
ISO/TC 194	ISO 10993-1/Cor1:2010 Biological evaluation of medical devices - Part 1: Guidance on selection of tests - Corrigendum	2010	Published
ISO/TC 198	ISO 11737-1:2006, Sterilization of medical devices - Microbiological methods - Part 1: Determination of a population of microorganisms on products	2006	Published
ISO/TC 198	ISO 11737-1/Cor1:2007 Sterilization of medical devices - Microbiological methods - Part 1: Estimation of population of microorganisms on products - Corrigendum	2007	Published
ISO/TC 198	ISO 18362:2016 Manufacture of cell-based health care products - Control of microbial risks during processing	2016	Published
ISO/TC 198	ISO/DTS 19930 Guidance on aspects of a risk-based approach to assuring sterility of terminally-sterilized, single-use health care products		(New) In Development
ISO/TC 202	ISO 13067:2011 Microbeam analysis - Electron backscatter diffraction - Measurement of average grain size	2011	Published

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ISO/TC 209	ISO 14644-1:2015 Cleanrooms and associated controlled environments - Part 1: Classification of air cleanliness by particle concentration	2015	Published
ISO/TC 210	ISO 13485:2016 Medical devices - Quality management systems - Requirements for regulatory purposes	2016	Published
ISO/TC 213	ISO 1302:2002 Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation	2002	Published
ISO/TC 213	ISO 4287/Amd1:2009 Geometrical Product Specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters - Amendment 1: Peak count number	2009	Published
ISO/TC 213	ISO 4288:1996, Geometrical Product Specifications (GPS) - Surface texture: Profile method - Rules and procedures for the assessment of surface texture	1996	Published
ISO/TC 213	ISO 4288/Cor1:1998 Corrigendum	1998	Published
ISO/TC 213	ISO 12085:1996, Geometrical Product Specifications (GPS) - Surface texture: Profile method - Motif parameters	1996	Published
ISO/TC 213	ISO 12085/Cor1:1998 Geometrical Product Specifications (GPS) -- Surface texture: Profile method -- Motif parameters	1998	Published
ISO/TC 213	ISO 15530-3:2011 Geometrical product specifications (GPS) - Coordinate measuring machines (CMM): Technique for determining the uncertainty of measurement - Part 3: Use of calibrated workpieces or measurement standards	2011	Published
ISO/TC 213	ISO 17450-1:2011 Geometrical product specifications (GPS) - General concepts - Part 1: Model for geometrical specification and verification	2011	Published
ISO/TC 215	ISO 12052:2006 Health informatics - Digital imaging and communication in medicine (DICOM) including workflow and data management	2006	Published
ISO/TC 261	ISO 17296-2:2015, Additive manufacturing -- General principles -- Part 2: Overview of process categories and feedstock	2015	Published
ISO/TC 261	ISO 17296-3:2014, Additive manufacturing -- General principles -- Part 3: Main characteristics and corresponding test methods	2014	Published
ISO/TC 261	ISO 17296-4:2014, Additive manufacturing -- General principles -- Part 4: Overview of data processing	2014	Published
ISO/TC 261/ASTM F42	ISO/ASTM 52900:2015, Additive manufacturing -- General principles -- Terminology	2015	Published
ISO/TC 261/ASTM F42	ISO/ASTM 52915:2016, Specification for Additive Manufacturing File Format (AMF) Version 1.2	2016	Published
ISO/TC 261/ASTM F42	ISO/ASTM 52921:2013, Standard Terminology for Additive Manufacturing - Coordinate Systems and Test Methodologies	2013	Published
ISO/TC 261/ASTM F42	ISO/ASTM DIS 52901, Additive manufacturing -- General principles -- Requirements for purchased AM parts		(New) In Development
ISO/TC 261/ASTM F42	ISO/ASTM NP 52902, Additive manufacturing -- General principles -- Standard test artifacts		(New) In Development
ISO/TC 261/ASTM F42	ISO/ASTM DIS 52903-1, Additive Manufacturing -- Standard Specification for Material Extrusion Based Additive Manufacturing of Plastic Materials -- Part 1: Feedstock materials		(New) In Development
ISO/TC 261/ASTM F42	ISO/ASTM CD 52903-2, Additive manufacturing -- Standard specification for material extrusion based additive manufacturing of plastic materials -- Part 2: Process -- Equipment		(New) In Development
ISO/TC 261/ASTM F42	ISO/ASTM NP 52905, Additive manufacturing - General principles - Non-destructive testing of additive manufactured products		(New) In Development
ISO/TC 261/ASTM F42	ISO/ASTM DIS 52910, Standard Practice -- Guide for Design for Additive Manufacturing	2016	(New) In Development

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ISO/TC 261/ASTM F42	ISO/NP TR 52912, Design of functionally graded additive manufactured parts		(New) In Development
MPIF	Standard Test Method 01: Method for Sampling Metal Powders	2016	Published
MPIF	Standard Test Method 02: Method for Determination of Loss of Mass in a Reducing Atmosphere for Metal Powders (Hydrogen Loss)	2016	Published
MPIF	Standard Test Method 03: Method for Determination of Flow Rate of Free-Flowing Metal Powders Using the Hall Apparatus	2016	Published
MPIF	Standard Test Method 04: Method for Determination of Apparent Density of Free-Flowing Metal Powders Using the Hall Apparatus	2016	Published
MPIF	Standard Test Method 05: Method for Determination of Sieve Analysis of Metal Powders	2016	Published
MPIF	Standard Test Method 06: Method for Determination of Acid Insoluble Matter in Iron and Copper Powders	2016	Published
MPIF	Standard Test Method 28: Method for Determination of Apparent Density of Non-Free-Flowing Metal Powders Using the Carney Apparatus	2016	Published
MPIF	Standard Test Method 32: Methods for Estimating Average Particle Size of Metal Powders Using Air Permeability	2016	Published
MPIF	Standard Test Method 42: Method for Determination of Density of Compacted or Sintered Powder Metallurgy (PM) Products Materials	2016	Published
MPIF	Standard Test Method 43: Method for Determination of the Apparent Hardness of Powder Metallurgy Products	2016	Published
MPIF	Standard Test Method 46: Method for Determination of Tap Density of Metal Powders	2016	Published
MPIF	Standard Test Method 48: Method for Determination of Apparent Density of Metal Powders Using the Arnold Meter	2016	Published
MPIF	Standard Test Method 51: Method for Determination of Microindentation Hardness of Powder Metallurgy Materials	2016	Published
MPIF	Standard Test Method 53: Method for Measuring the Volume of the Apparent Density Cup Used with the Hall and Carney Apparatus (Standards 04 and 28)	2016	Published
MPIF	Standard Test Method 54: Method for Determination of Density of Impermeable Powder Metallurgy (PM) Materials	2016	Published
MPIF	Standard 58 (ASTM B946-11(2016), Standard Test Method for Surface Finish of Powder Metallurgy (PM) Products)	2016	Published
MPIF	Standard Test Method 66: Method for Sample Preparation for the Determination of the Total Carbon Content of Powder Metallurgy (PM) Materials (Excluding Cemented Carbides)	2016	Published
MPIF	Standard Test Method 67: Guide to Sample Preparation for the Chemical Analysis of the Metallic Elements in PM Materials	2016	Published
MPIF	Standard Test Method 69: Guide for the Determination of the Porosity in Powder Metallurgy Products Using Automated Image Analysis	2016	Published
NACE International	ANSI/NACE MR0175/ISO 15156, Petroleum and natural gas industries - Materials for use in H2S-containing environments in oil and gas production (includes parts 1, 2, and 3)	2015	Published
NACE International, TG 419	NACE SP0287-2016: Field Measurement of Surface Profile of Abrasive Blast-Cleaned Steel Surfaces Using a Replica Tape	2016	Published
NASA MSFC	Draft Standard for Laser Powder Bed Fusion (PBF) Additive Manufacturing (AM): Engineering and Quality Standard for Additively Manufactured Spaceflight Hardware		(New) In Development
NEMA	NEMA CPSP 1-2015, Supply Chain Best Practices	2015	Published
NEMA/MITA	NEMA/MITA CSP 1-2016, Cybersecurity for Medical Imaging	2016	Published
NEMA/MITA	DICOM Part 1-Part 20	2016	Published

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NFPA	NFPA 68-2013: Standard on Explosion Protection by Deflagration Venting, 2013 Edition	2013	Published
NFPA	NFPA 69-2014: Standard on Explosion Prevention Systems, 2014 Edition	2014	Published
NFPA	NFPA 70-2014: National Electrical Code (NEC) Softbound, 2014 Edition	2014	Published
NFPA	NFPA 77-2014: Recommended Practice on Static Electricity, 2014 Edition	2014	Published
NFPA	NFPA 91-2015: NFPA 91 Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Particulate Solids, 2015 edition	2015	Published
NFPA	NFPA 484-2015: Standard for Combustible Metals, 2015 Edition	2015	Published
NFPA	NFPA 499-2017: NFPA 499 Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas, 2017 edition	2017	Published
NFPA	NFPA 652-2016: Standard on the Fundamentals of Combustible Dust, 2016 edition	2016	Published
NFPA	NFPA 654-2017: NFPA 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, 2017 edition	2017	Published
NIST	Framework for Improving Critical Infrastructure Cybersecurity (Cybersecurity Framework)	2014	Published
NIST	Cybersecurity Framework Manufacturing Profile	2016	New (In Development)
NIST	NIST Special Publication 800-53 Revision 4, Security and Privacy Controls for Federal Information Systems	2013	Published
NIST	NIST Special Publication 800-82 Revision 2, Guide to Industrial Control Systems (ICS) Security	2015	Published
NIST	NISTIR 8012, Standards Related to Prognostics and Health Management (PHM) for Manufacturing	2014	Published
NIST	NISTIR 8041, Proceedings of the Cybersecurity for Direct Digital Manufacturing (DDM) Symposium	2015	Published
SAE	Composite Materials Handbook (CMH-17)	2012	Published
SAE	SAE J911-1998: Surface Roughness and Peak Count Measurement of Cold-Rolled Sheet Steel	1998	Published
SAE AMS-AM	AMS7000 WIP Additive Manufacture of Aerospace parts from Ni-base Superalloy 625 via the Laser Powder Bed Process		(New) In Development
SAE AMS-AM	AMS7001 WIP, Ni Base 625 Super Alloy Powder for use in Laser Powder Bed Add Mfg Machines		(New) In Development
SAE AMS-AM	AMS7002 WIP, Process Requirements for Production of Powder Feedstock for use in Laser Powder Bed Additive Manufacturing of Aerospace parts		(New) In Development
SAE AMS-AM	AMS7003 WIP, Laser Powder Bed Fusion Process		(New) In Development
SAE AMS B	SAE AMS03-2-2015 (SAE AMS03-2-2015) Cleaning and Preparation of Metal Surfaces	2015	Published
SAE AMS B	SAE AMS2680C-2001 Electron-Beam Welding for Fatigue Critical Applications	2010	Published
SAE AMS G	SAE AMS4998E-2013 (SAE AMS4998E-2013), Titanium Alloy Powder 6Al 4V	2013	Published
SAE AMS G	SAE AMS4999A-2011, Titanium Alloy Laser Deposited Products~6Al - 4V~Annealed	2011	Published
SAE AMS K	SAE AMSSTD2154A Inspection, Ultrasonic, Wrought Metals, Process For	2012	Published
SAE E-25	SAE AS291F-2014 Surface Texture, Roughness, Waviness and Lay (Stabilized: Sep 2014)	2014	Published
SAE G-11	SAE JA1011-2009 Evaluation Criteria for Reliability-Centered Maintenance (RCM) Processes	2009	Published
SAE G-11M	SAE JA1012-2011 A Guide to the Reliability-Centered Maintenance (RCM) Standard	2011	Published
SAE G-14	SAE AS9100-1999 Quality Systems - Aerospace - Model for Quality Assurance in Design, Development, Production, Installation and Servicing	1999	Published

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SAE LCLS	SAE AS1390-2014 Level of Repair Analysis (LORA)	2014	Published
UL	UL 2900-1, Outline of Investigation for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements	2016	Published
UL	UL 2900-2-1, Outline of Investigation for Software Cybersecurity for Network-Connectable Products, Part 2-1: Particular Requirements for Network Connectable Components of Healthcare Systems	2016	Published
UL	UL 2900-2-2, Outline of Investigation for Software Cybersecurity for Network-Connectable Products, Part 2-2: Particular Requirements for Industrial Control Systems	2016	Published
U.S. Pharmacopeia	USP29-NF24 <161> Transfusion and Infusion Assemblies and Similar Medical Devices	2005	Published
U.S. Pharmacopeia	USP35-NF30 <85> Bacterial Endotoxins Test	2012	Published
U.S. Pharmacopeia	USP36-NF31 <788> Particulate Matter in Injections	2012	Published
VDI	VDI/VDE 2630 Blatt 1.4, Computed tomography in dimensional metrology - Measurement procedure and comparability	2010	Published
VDI	VDI 3405 Blatt 3-2015, 2015 Additive manufacturing processes, rapid manufacturing - Design rules for part production using laser sintering and laser beam melting	2015	Published