

Carley Foundry Industry Specifications Index

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4/10/2024

Specification Designation	Current Revision Level	Specification Title
A-A-56032	D	Ink, Marking, Epoxy Base
Aluminum Sand and Permanent Mold Casting, Standards for	2021	Standards for Aluminum Sand and Permanent Mold Casting (16th ED err1)
AMS2175	A	Castings, classification and inspection of
AMS2248	H	Chemical Check Analysis Limits, Corrosion- and Heat-Resistant Steels and Alloys, Maraging and Other Highly Alloyed Steels, and Iron Alloys (RA2022)
AMS2360	E	Room temperature tensile properties of castings
AMS2644	H	Inspection Material, Penetrant
AMS2685	F	Welding, tungsten arc, inert gas (GTAW method) (STBL 2017)
AMS2694	C	In-process Welding of Castings
AMS2700	F	Passivation of Corrosion Resistant Steels
AMS2750	G	Pyrometry
AMS2759/3	J	Heat Treatment Precipitation-Hardening Corrosion-Resistant, Maraging, and Secondary Hardening Steel Parts
AMS2771	F	Heat Treatment of Aluminum Alloy Castings
AMS2804	D	Identification Castings (STBL2017)
AMS2816	W	Identification - Welding Wire, Tab Marking Method
AMS4190	L	Aluminum Alloy, Welding Wire 5.2Si (4043)
AMS4212	L	Aluminum Alloy Castings 5.0Si - 1.2Cu - 0.50Mg (355.0-T6) Solution and Precipitation Heat Treated (Composition similar to UNS A03550)
AMS4214	K	Castings, Aluminum Alloy Sand 5.0Si - 1.2Cu - 0.50Mg (355.0-T71) Solution Heat Treated and Overaged
AMS4215	J	Aluminum Alloy , Castings 5.0Si - 1.2Cu - 0.50Mg (C355-T6) Solution and Precipitation Heat Treated
AMS4217	J	Aluminum Alloy Castings 7.0Si - 0.32Mg (356.0-T6) Solution and Precipitation Heat Treated
AMS4218	J	Aluminum Alloy Castings 7.0Si - 0.35Mg (A356.0-T6)(Formerly T6P Temper) Solution and Precipitation Heat Treated (R/A 10/15)
AMS4219	F	Aluminum Alloy Castings 7.0Si - 0.55 Mg - 0.12Ti - 0.06Be (A357.0 T6) Solution and Precipitation Heat Treated (R/A 10/15)
AMS4225	E	Aluminum Alloy, Heat-Resistant, Castings 5.0Cu - 1.5Ni - 0.25Mn - 0.25Sb - 0.25Co - 0.20Ti - 0.20Zr (203.0-T6) Solution Heat Treated and Precipitation Heat Treated
AMS4226	B	Aluminum Alloy Castings, High Strength 5.0Cu - 0.35Mn - 0.18Zr - 0.10V (224.0) Solution and Precipitation Heat Treated (Overaged) (STBL2017)
AMS4229	G	Aluminum Alloy Castings, High Strength 4.5 Cu- .70 Ag-.30 Mn-.25 Mg-.25 Ti (A201.0-T7) Solution Heat Treated and Overaged
AMS4235	C	Aluminum Alloy Castings, 4.6Cu - 0.35Mn - 0.25Mg - 0.22Ti (A206.0-T71) Solution and Precipitation Heat Treated
AMS4236	D	Aluminum Alloy Castings 4.6Cu - 0.35Mn - 0.25Mg - 0.22Ti (A206.0-T4) Solution Heat Treated and Naturally Aged
AMS4241	E	Aluminum Alloy Castings 7.0Si - 0.58Mg - 0.15Ti - 0.06Be (D357.0-T6) Solution and Precipitation Heat Treated Dendrite Arm Spacing (DAS) Controlled
AMS4245	G	Aluminum Alloy, Welding Wire 5.0Si-1.2Cu-0.5Mg (C355.0)
AMS4246	F	Aluminum Alloy, Welding Wire 7.0Si - 0.52 Mg (357)
AMS4249	B	Aluminum Alloy Castings 7.0Si - 0.58Mg - 0.15Ti - 0.06Be (D357.0-T6) Solution and Precipitation Heat Treated (Requiring Fatigue and Fracture Toughness Testing)
AMS4260	G	Aluminum Alloy, Investment Castings 7.0Si - 0.32Mg (356-T6) Solution and Precipitation Heat Treated (RA 2014)
AMS4261	G	Aluminum Alloy Casting, Investment 7.0Si - 0.32Mg (356-T51) Precipitation Heat Treated
AMS4284	K	Aluminum Alloy Castings, Permanent Mold 7.0Si - 0.30Mg (356-T6) Solution and Precipitation Heat Treated

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AMS4286	F	Aluminum Alloy Castings, Permanent Mold 7.0Si - 0.32Mg (356-T51) As-Cast then Precipitation Heat Treated (RA2015)
AMS4288	2001-11	Aluminum Alloy Castings 7.0Si - 0.58Mg - 0.15Ti (E357.0-T6) Solution and Precipitation Heat Treated (R/A 5/16)
AMS4289	2001-11	Aluminum Alloy Castings, 7.0Si - 0.55Mg - 0.12Ti (F357.0-T6) Solution and Precipitation Heat Treated (R/A 4/13)
AMS4890	D	Copper-Beryllium Alloy Castings- 97Cu - 2.1Be - 0.52Co - 0.28Si Solution Heat Treated (TB00) (STBL2018)
AMS5330	E	Steel Castings, Investment 0.80Cr - 1.8Ni - 0.35Mo (0.38 - 0.46C) (SAE 4340 Modified) Annealed (STBL2015)
AMS5334	J	Steel, Investment Castings- 0.50Cr - 0.55Ni - 0.20Mo (0.25-0.35C) (SAE 8630 Mod) Normalized and Tempered
AMS5336	H	Steel, Investment Castings- 0.95Cr - 0.20Mo (0.25 - 0.35C) (SAE 4130 Mod) Normalized or Normalized and Tempered
AMS5342	F	Steel Corrosion-Resistant, Investment Castings 16Cr - 4.1Ni - 0.28Cb (Nb) - 3.2Cu Homogenization, Solution, and Precipitation Heat Treated (H1100) 130 ksi (896 MPa) Tensile Strength (17-4)
AMS5343	F	Steel, Corrosion-Resistant, Investment Castings 16Cr - 4.1Ni - 0.28Cb (Nb) - 3.2Cu Homogenization, Solution and Precipitation Heat Treated (H1000) 150 ksi (1034 MPa) Tensile Strength (17-4)
AMS5347	C	Steel, Corrosion Resistant, Investment Castings 15Cr - 4.6Ni - 0.22Cb (Nb) - 2.8Cu Solution and Precipitation Heat Treated (H1000) 150 ksi (1034 MPa) Tensile Strength (15-5)
AMS5355	J	Steel, Corrosion Resistant, Investment Castings 16Cr - 4.1Ni - 0.28Cb - 3.2Cu Homogenization and Solution Heat Treated or Homogenization, Solution, Precipitation Heat Treated (RA2022)
AMS5357	E	Steel, Corrosion-Resistant, Investment Castings 15Cr - 4.6Ni - 0.22Cb - 2.8Cu Solution Heat Treated, Precipitation Hardenable
AMS5358	D	Steel Castings, Investment, Corrosion Resistant 18Cr - 9Ni Solution Heat Treated
AMS5362	M	Steel, Corrosion and Heat Resistant, Investment Castings 19Cr - 12Ni - 1.0Cb (Nb) Solution Heat Treated
AMS5659	T	Steel, Corrosion Resistant, Bars, Wire, Forgings, Rings, and Extrusions, 15Cr - 4.5Ni - 0.30Cb (Nb) - 3.5Cu, Consumable Electrode Remelted, Solution Heat Treated, Precipitation Hardenable
AMS5803	H	Steel, Corrosion and Heat-Resistant, Welding Wire 16.4Cr - 4.8Ni - 0.22Cb (Nb) - 3.6Cu Consumable Electrode or Vacuum Induction Melted
AMS7721	7-1-57	Lead Alloy Sheet and Extrusions 6.5Sb - 0.5Sn
AMS-A-21180	C	Aluminum-Alloy Castings, High Strength (STBL2017)
AMS-H-6875	C	Heat Treatment of Steel Raw Materials (STBL2020)
ANSI/ASQ Z1.4	2003	Sampling Procedures & Tables for Inspection Attributes (R2013)
ARP1962	B	Training & Approval of Heat Treating Personnel
ARP4992	B	Periodic Test for Processing Solutions
ARP9134	03/2004	Supply Chain Risk Management Guideline
AS478	S	Identification Marking Methods
AS5202	A	Internal Straight Thread Design
AS6174	A	Counterfeit Material; Acquisition of Authentic and Conforming Material
AS9100	D	Quality Systems Aerospace Model for Quality Assurance in Design, Development, Production, Installation and Servicing
AS9101	G	Quality Management Systems Audit Requirements for Aviation, Space and Defense Organizations
AS9102	C	Aerospace First Article Inspection Requirement
AS9103	A	Variation Management of Key Characteristics
AS9104-1	A	Requirements for Certification of Aviation, Space, and Defense Quality Management System
AS9117	3/2016	Delegated Product Release Verification

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AS9131	D	Quality Management Systems - Nonconformity Data Definition and Documentation
AS9138	01-2018	Aerospace Series - Quality Management System Statistics Product Acceptance Requirements
AS9145	11-2016	Aerospace Series - Requirements for Advanced Product Quality Planning & Production Part Approval Process
AS9146	04-2017 (R2022)	Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, and Defense Organizations
AS13001	A	Delegated Product Release Verification Training Requirements
AS13002	03-2015	Requirements for Developing and Qualifying Alternate Inspection Frequency Plans
AS13003	02-2015	Measurement Systems Analysis Requirements for the Aero Engine Supply Chain
AS13004	8-2017	Process Failure Mode and Effects Analysis (PFMEA) and Control Plans
AS13006	9-2018	Process Control Methods
ASME B46.1	2019 (6-30-20)	Surface Texture (Surface Roughness, Waviness and Lay)
ASME Y14.100	17 (2013)	Engineering Drawing Practices
ASME Y14.24	2020 (10/23/2020)	Types and Applications of Engineering Drawings
ASME Y14.41	2019	Digital Product Definition Data Practices
ASME Y14.5	2009	Dimensioning and Tolerancing
ASME Y14.8	2022	Castings, Forgings, and Molded Parts
ASTM A276/A276M	24	Standard Specification for Stainless Steel Bars and Shapes
ASTM A351/A351M	18	Standard Specification for Casting, Austenitic, for Pressure-Containing Parts
ASTM A370	22	Standard Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM A743/A743M	21	Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application
ASTM A747/A747M	18	Standard Specification for Steel Castings, Stainless, Precipitation Hardening
ASTM A751	21	Standard Test Methods and Practices for Chemical Analysis of Steel Products
ASTM A802	19	Standard Practice for Steel Castings, Surface Acceptance Standards, Visual Examination
ASTM A997	23	Standard Practice for Investment Castings, Surface Acceptance Standards, Visual Examination
ASTM B26/B26M	18e1	Standard Specification for Aluminum-Alloy Sand Castings
ASTM B85/B85M	10	Standard Specification for Aluminum-Alloy Die Casting
ASTM B108/B108M	19	Standard Specification for Aluminum-Alloy Permanent Mold Castings
ASTM B179	18	Standard Specification for Aluminum Alloys in Ingot and Molten Forms for Castings from all Casting Processes
ASTM B557	15	Standard Test Methods for Tension Testing Wrought and Cast Aluminum and Magnesium Alloy Products (RA 2023)
ASTM B618/B618M	18e1	Standard Specification for Aluminum-Alloy Investment Castings
ASTM B660	23	Standard Practices for Packaging/Packing of Aluminum and Magnesium Products
ASTM B686/B686M	18	Standard Specification for Aluminum Alloy Castings, High Strength
ASTM B917/B917M	12 (R2020)	Standard Practice for Heat Treatment of Aluminum Alloy Castings from all Processes
ASTM B985	12 (2016)	Standard Practice for Sampling Aluminum Ingots, Billets, Castings and Finished or Semi-Finished Wrought Aluminum Products for Compositional Analysis
ASTM B998	17	Standard Guide for Hot Isostatic Pressing (HIP) of Aluminum Alloy Castings
ASTM D740	94 (2001)	Standard Specification for Methyl Ethyl Ketone
ASTM E3	11	Standard Guide for Preparation of Metallographic Specimens
ASTM E4	21	Standard Practices for Force Verification of Testing Machines

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ASTM E8/E8M	22	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E10	23	Standard Test Method for Brinell Hardness of Metallic Materials
ASTM E18	22	Standard Test Methods for Rockwell Hardness of Metallic Materials
ASTM E21	20	Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials
ASTM E29	22	Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
ASTM E83	23	Standard Practice for Verification and Classification of Extensometer Systems
ASTM E94/E94M	22	Standard Guide for Radiographic Examination Using Industrial Radiographic Film
ASTM E110	14	Standard Test Method for Rockwell and Brinell Hardness of Metallic Materials by Portable Hardness Tester (R2023)
ASTM E135	21a	Standard Terminology Relating to Analytical Chemistry for Metals, Ores & Related Materials
ASTM E139	11	Standard Test Method for Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials
ASTM E140	12be1	Standard Hardness Conversion Tables for Metals Relationship Among Brinell, Vickers, Rockwell, Superficial, Knoop, Scleroscope, and Leeb Hardness
ASTM E155	20	Standard Reference Radiographs for Inspection of Aluminum and Magnesium Castings
ASTM E165/E165M	23	Standard Practice for Liquid Penetrant Examination for General Industry
ASTM E192	20	Standard Reference Radiographs of Investment Steel Castings for Aerospace Applications
ASTM E220	19	Standard Test Method for Calibration of Thermocouples by Comparison Techniques
ASTM E230/230M	17	Standard Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples
ASTM E415	21	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry
ASTM E608/E608M	06	Standard Specification for Mineral-Insulated, Metal-Sheathed Base Metal Thermocouples
ASTM E716	16 (R2021)e2	Standard Practices for Sampling and Sample Preparation of Aluminum and Aluminum Alloys for Determination of Chemical Composition by Spectrochemical Analysis
ASTM E930	18	Standard Test Methods for Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size)
ASTM E1012	19	Standard Practice for Verification of Testing Frame and Specimen Alignment Under Tensile and Compressive Axial Force Application
ASTM E1025	18	Standard Practice for Design, Manufacture, and Material Grouping Classification of Hole-Type Image Quality Indicators (IQI) Used for Radiology
ASTM E1079	21	Standard Practice for Calibration of Transmission Densitometers
ASTM E1086	22	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry
ASTM E1165	20	Standard Test Method for Measurement of Focal Spots of Industrial X-Ray Tubes by Pinhole Imaging
ASTM E1251	17a	Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry
ASTM E1254	13 (R2023)	Standard Guide for Storage of Radiographs and Unexposed Industrial Radiographic Films
ASTM E1282	21	Standard Guide for Specifying the Chemical Compositions and Selecting Sampling Practices and Quantitative Analysis Methods for Metals, Ores, and Related Materials
ASTM E1316	24	Standard Terminology for Nondestructive Examinations
ASTM E1417/E1417M	21e1	Standard Practice for Liquid Penetrant Testing
ASTM E1444/E1444M	22a	Standard Practice for Magnetic Particle Testing for Aerospace
ASTM E1742/E1742M	23	Standard Practice for Radiographic Examination

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ASTM E1815	18 (R2023)	Standard Test Method for Classification of Film System for Industrial Radiography
ASTM E1817	08	Standard Practice for Controlling Quality of Radiological Examination by Using Representative Quality Indicators (RQI's) (R2022)
ASTM E2002	22	Standard Practice for Determining Image Unsharpness and Basic Spatial Resolution in Radiography and Radioscopy
ASTM E2033	17	Standard Practice for Radiographic Examination Using Computed Radiography (Photostimulable Luminescence Method)
ASTM E2339	21	Standard Practice for Digital Imaging and Communication in Nondestructive Evaluation (DICONDE)
ASTM E2422	22	Standard Digital Reference Images for Inspection of Aluminum Castings
ASTM E2445/E2445M	20	Standard Practice for Performance Evaluation and Long-Term Stability of Computed Radiography Systems
ASTM E2597/E2597M	22	Standard Practice for Manufacturing Characterization of Digital Detector Arrays
ASTM E2698	18e1	Standard Practice for Radiological Examination Using Digital Detector Arrays
ASTM E2699	23	Standard Practice for Digital Imaging and Communication in Nondestructive Evaluation (DICONDE) for Digital X-ray (DX) Test Methods
ASTM E2737	23	Standard Practice for Digital Detector Array Performance Evaluation and Long-Term Stability
ASTM E3022	18	Standard Practice for Measurement of Emission Characteristics and Requirements for LED UV-A Lamps Used in Fluorescent Penetrant and Magnetic Particle Testing
AWS A5.9/A5.9M	10th ED, 2022	Welding Consumables - Wire Electrodes, Strip Electrodes, Wires, and Rods for Arc Welding of Stainless and Heat Resisting Steel - Classification
AWS A5.10/A5.10M	13th ED, 2023	Specification for Bare Aluminum and Aluminum-Alloy Welding Electrodes and Rods
AWS A5.12M/A5.12	8th ED, 2024	Specification for Tungsten and Oxide Dispersed Tungsten Electrodes for Arc Welding & Cutting
AWS B2.1/B2.1M	7th ED, 2021	Specification for Welding Procedure and Performance Qualification
AWS C5.5/C5.5M	2003	Recommended Practices for Gas Tungsten Arc Welding
AWS D17.1/D17.1M	2017-AMD2-Erta	Specification for Fusion Welding for Aerospace Applications
BB-H-1168	D, N1	Helium, Technical
BS EN 1371-1	2011	Founding - Liquid Penetrant Testing - Part 1: Sand, Gravity Die & Low Pressure Die Castings
BS EN 12543-5	1999	Non-destructive testing - Characteristics of focal spots in Industrial X-Ray systems for use in Non-Destructive Testing
BS L 169		Ingots and Castings of Aluminum - Silicon - Magnesium Alloy (Solution treated and artificially aged) (Si 7, Mg 0.6)
CGA G-11.1	2023	Commodity Specification for Argon
FAR 52.245-1	Sept 2021	Government Property
GGG-P-463	C, A1 6-15-77	Plate, Surface, (Granite) (Inch & Metric)
IC Alloy Chemistry Index Book	Ninth Edition 2.5M 7-01	Alloy Index - Air-Melt Specification Alloys - C-M Group Specialty Materials & Alloys Group of SPS Technologies
ISO 2768-1	1st ED 11-15-89	General Tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications
ISO 5725-1	2nd ED, 7/23	Accuracy (trueness and precision) of Measurement Methods and Results - Part 1: General Principles and Definitions
ISO 5725-2	2nd ED, 12-2019	Accuracy (trueness and precision) of measurement methods and results - Part 2: Basic Method for the Determination of Repeatability and Reproducibility of a Standard Measurement Method
ISO 8062	2nd ED, 4/1/94	Castings - Systems of Dimensional Tolerances and Machining Allowances
ISO 9000	4th ED, 9-15-15	Quality Management Systems - Fundamentals and Vocabulary
ISO 9001	5 ED, Amd 1	Quality Management Systems-Requirements
ISO 9004	3rd ED, 11-1-09	Managing for the Sustained Success of an Organization - A Quality Management Approach

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ISO 10007	2nd ED, 6/15/2003	Quality Management Systems - Guidelines for Configuration Management
ISO 10012	1st ED, 4-15-03	Measurement Management Systems - Requirements for Measurement Processes and Measuring Equipment
ISO 10049	1st ED, 4-1-92	Aluminum Alloy Castings - Visual Method for Assessing the Porosity
ISO/IEC 17021-1	6.15.2015	Conformity assessment – Requirements for bodies providing audit and certification of management systems - Part 1: Requirements
ISO/IEC 17025	3rd Ed, 11-2017	General Requirements for the Competence of Testing and Calibration Laboratories
ISO 22081	1st Ed, 2/21	Geometrical Product Specifications (GPS) - Geometrical Tolerancing - General geometrical specification and general size specifications
ISO/IEC GUIDE 2	7th ED, 1996	Standardization and Related Activities - General Vocabulary
MIL-DTL-5541	F, VN2	Chemical Conversion Coatings on Aluminum and Aluminum Alloys
MIL-DTL-18455	D	Argon, Technical
MIL-PRF-8625	F Amd 2	Anodic Coatings for Aluminum and Aluminum Alloys
MIL-PRF-22750	G, Amd 1, N1	Performance Specification: Coating, Epoxy, High Solids
MIL-PRF-23377	K, VN1	Performance Specification - Primer Coatings: Epoxy, High-Solids
MIL-S-81591	68, VN 2	Steel, Investment Castings, Carbon and Corrosion Resisting
MIL-STD-129	R, CN3	Military Marking for Shipment and Storage
MIL-STD-130	N, VN1	Identification Marking of U.S. Military Property
MIL-STD-171	F	Finishing of Metal and Wood Surfaces
MIL-STD-276	A, VN1	Impregnation of Porous Metal Castings & Powdered Metal Components
MIL-STD-1537	C, VN3	Test Method Standard for Electrical Conductivity Test for Verification of Heat Treatment of Aluminum Alloys Eddy Current Method
MIL-STD-1907	89, VN6 8-7-19	Inspection, Liquid Penetrant & Magnetic Particle, Soundness Requirements for Materials, Parts & Weldments
MIL-STD-2035	A	Non-Destructive Testing Acceptance Criteria
MIL-STD-45662	6/10/1980	Military Standard, Calibration Systems Requirements
MIL-W-13855	D, N1, 5-28-87	Weapon, Small Arm and Aircraft Armament Subsystems, General Specification for
MIL-W-22248	A, Amd 2 6-6-85	Weldments, Aluminum & Aluminum Alloy
MIL-W-63150	77, N2, 2-8-07	Weapons & Support Material Standard Quality Assurance Provisions for
Minnesota 345.20	2022	Minnesota Statute - 345.20 Dies, Molds, Ownership
NAS410	5 amd2	Certification & Qualification of Nondestructive Test Personnel
NAS1514	3	Radiographic Standard for Classification of Fusion Weld Discontinuities
NASM33537	3	Insert, Screw Thread, Helical Coil, Inch Series, Coarse and Fine Thread, Standard Assembly Dimensions for
NAVORD OD 8841	A	Castings-Dimensions, Tolerances & Draft (Special Applications)
NIST SP 800-171	June 2015 (Includes updates as of 1/14/16)	Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations
NIST SP 1038	May 2006	The International System of Units (SI) - Conversion Factors for General Use
QPL-23377	10/11/2023	Qualified Products List of Products Qualified under Military Specification MIL-PRF-23377 Primer Coatings - Epoxy, High-Solids
QPL-AMS2644	2/14/2024	Qualified Product List of Products Qualified Under Performance Specification SAE-AMS2644, Inspection Material, Penetrant
RP-1		Establishment and Adjustment of Calibration Intervals
S9074-AQ-GIB-010/248	8-1-95	Requirements for Welding & Brazing Procedure & Performance Qualification
S9074-AR-GIB-010/278	8-1-95	Requirements for Fabrication Welding & Inspection, Casting Inspection & Repair for Machinery, Piping, & Pressure Vessels
SAE J452	JAN2018 (STBL18)	General Information - Chemical Compositions, Mechanical and Physical Properties of SAE Aluminum Casting Alloys
T9074-AS-GIB-010/271	1	Requirements for Nondestructive Testing Methods

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WS 18811	C (4-9-86)	Naval Sea Systems Specification for Castings
WS19181	B, NOR007	Process Specification for Fusion Welding of Aluminum Alloys (except 2014)