

# STANDARDS AND SPECIFICATIONS COMPLIED TO BY SECP

Please note: Several standards and specifications are obsolete but are still specified in customer's drawings.

Category	Spec Number	Spec Title	
AS	1192	Electroplated coatings - Nickel and chromium	
	1199.1	Sampling procedures for inspection by attributes. Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection	
	1247	Metallic coatings- Coatings other than those anodic to the basis metal-Accelerated corrosion tests-Method for the evaluation of the results	
	1627.5	Metal Finishing - Preparation and Pretreatment of Surfaces Part 5: Pickling	
	1627.6	Metal finishing - preparation and pretreatment of surfaces Part 6: Chemical conversion treatment of metals	
	1789	Electroplated Zinc (electrogalvanized) coatings on ferrous articles (bath process)	
	1790	Electroplated Coatings - Cadmium on Iron or Steel	
	1856	Electroplated Coatings - Silver	
	1897	Fasteners - Electroplated Coatings	
	1901	Electroplated coatings - Gold and Gold Alloys	
	2331.1.3	Methods of test for metallic and related coatings Method 1.3: Local thickness tests - Magnetic method	
	2331.1.4	Methods of test for metallic and related coatings Method 1.4: Local thickness tests-Magnetic induction and eddy current methods	
	2331.2.1	Methods of test for metallic and related coatings.Method 2.1: tests for average coating mass per unit area or for thickness-Dissolution methods-Strip and weigh, and analytical	
	2331.3.4	Thioacetamide anti-tarnish and porosity test	
	2331.4.1	Methods of test for metallic and relating coatings. Method 4.1: Physical tests- Qualitative adhesion tests	
	2483	Metal finishing-Recommended sampling plans for the inspection and testing of coatings	
	4169	Electroplated coatings - Tin and Tin Alloys (ISO 2093:1986, MOD)	
	4397	Electroplated Coatings of Zinc on Steel Fasteners with Imperial Threads	
	ASTM	K141	Electroplating Coatings of Tin
		A380-A380M	Standard Practice for Cleaning, Descaling, and Passivation of Stainless Steel Parts, Equipment, and Systems
A967		Standard Specification of Chemical Passivation Treatments for Stainless Steel Parts	
B242		Standard Practice for Preparation of High-Carbon Steel for Electroplating	
B252		Preparation of Zinc Alloy Die Castings for Electroplating and Conversion Coatings	
B254		Preparation of and Electroplating on Stainless Steel	
B281		Preparation of Copper and Copper-Base Alloys for Electroplating and Conversion Coatings	
B322		Standard Guide for Cleaning Metals Prior to Electroplating	
B380	Cleaning & Descaling Stainless Steel Parts, Equipment and Systems		

Category	Spec Number	Spec Title
ASTM	B449	Standard Practice for Chromate Treatments for Aluminium
	B481	Preparation of Titanium and Titanium Alloys for Electroplating
	B482	Preparation of Tungsten and Tungsten Alloys for Electroplating
	B488	Standard Specification for Electrodeposited Coatings of Gold for Engineering Uses
	B499	Measurement of Coating Thicknesses by the Magnetic Method: Non magnetic Coatings on Magnetic Basis Metals
	B545	Standard Specification for Electrodeposited Coatings of Tin
	B568	Measurement of Coating Thickness by X-Ray Spectrometry
	B571	Standard Practice for Qualitative Adhesion Testing of Metallic Coatings
	B579	Standard Specification for Electrodeposited Coatings of Tin-Lead Alloy (Solder Plate)
	B605	Electrodeposited Coatings of Tin-Nickel Alloy
	B633	Electrodeposited Coatings of Zinc on Iron and Steel
	B656	Autocatalytic (Electroless) Nickel-Phosphorus Deposition on Metals for Engineering Use
	B678	Solderability of Metallic-coated Products
	B689	Electroplated Engineering Nickel Coatings
	B700	Electrodeposited Coatings of Silver for Engineering Use
	B733	Autocatalytic (Electroless) Nickel-Phosphorus Coatings on Metals
	B766	Electrodeposited Coatings of Cadmium
	B809	Porosity in Metallic Coatings by Humid Sulfur Vapor ("Flowers-of-Sulfur")
	B841	Standard Specification for Electrodeposited Coatings of ZnNi Alloy Deposits
	B849	Pre-Treatments of Iron or Steel for Reducing Risk of Hydrogen Embrittlement
	B850	Std Guide for Post-Coating Treatments of Steel for Reducing the risk of Hydrogen Embrittlement
	B867	Std Spec for Electrodeposited Coatings of Palladium-Nickel for Engineering Use
	B921	Non-hexavalent Chromium Conversion Coatings on Aluminum and Aluminum Alloys
	D2510	Std Test Method for Adhesion of Solid Film Lubricants
	D2651	Preparation of Metal Surfaces for Adhesive Bonding
	D3359	Standard Test Methods for Rating Adhesion by Tape Test
	D7091	Std Practice for Nondestructive Meas. of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Non Conductive Coatings Applied to Non-Ferrous Metals
	E864	Surface Preparation of Aluminium Alloys to be Adhesively Bonded in Honeycomb Shelter Panels
	F1137/F1137M	Phosphate/Oil Corrosion Protective Coatings for Fasteners
	F1470	Fastener Sampling
	F22	Hydrophobic Surface Films by the Water-Break Test
	BS	1224
12487		Corrosion Protection of Metals - Rinsed & non-rinsed Chromate conversion coatings on Aluminium & Aluminium Alloys
1706		Electroplated Coatings of Zinc and Cadmium on Iron and Steel

Category	Spec Number	Spec Title
BS	1872	Electroplated Coatings of Tin
	3382 : Pt 7	Electroplated Coatings on Threaded Components. Part 7: Thicker Platings for Threaded Components
	3382 : Pts 1&2	Electroplated Coatings on Threaded Components Part 1: Cadmium on Steel Components. Part 2: Zinc on Steel Components
	3382 : Pts 3&4	Electroplated Coatings on Threaded Components. Part 3: Nickel or Nickel plus Chromium on Steel Components Part 4: Nickel or Nickel plus Chromium on Copper and Copper Alloy (including Brass) Components
	3382 : Pts 5&6	Electroplated Coatings on Threaded Components. Part 5: Tin on Copper & Copper Alloy (including Brass) Components. Part 6: Silver on Copper & Copper Alloy (including Brass) Components
	6137	Electroplated Coatings of Tin / Lead Alloys
	6338	Chromate Conversion Coatings on Electroplated Zinc and Cadmium Coatings
	6670 : Pt 4	Electroplated Gold and Gold Alloy Coatings. Part 4: Determination of Gold Content
	6670 : Pt 6	Electroplated Gold and Gold Alloy Coatings Part 6: Detection of Residual Salts
	7371 : Pt 3	Coatings on Metal Fasteners. Part 3: Specification for Electroplated Zinc and Cadmium Coatings
	7773	Cleaning and Preparation of Metal Surfaces
	EN ISO 4521	Metallic and other Inorganic Coatings - Electrodeposited Silver and Silver Alloy Coatings for Engineering Purposes
	EN ISO 4526	Metallic Coatings - Electroplated Coatings of Nickel for Engineering Purposes
ISO 11408	Chemical Conversion coatings - Black Oxide coating on Iron and Steel	
DEF (AUST)	9008	Cadmium Plating Low Embrittlement, Electrodeposition
DEF STAN	03-10	Electro-Deposition of Nickel and Chromium
	03-11	Phosphate Treatment of Iron and Steel
	03-12	Chromate Passivation of Brass Articles
	03-17	Electro-Deposition of Gold
	03-18	Chromate Conversion Coatings (Chromate Filming Treatments) for Aluminium and Aluminium Alloys
	03-19	Electro-Deposition of Cadmium
	03-2	Cleaning and Preparation of Metal Surfaces
	03-20	Electro-Deposition of Zinc
	03-5	Autocatalytic (Electroless) Nickel Coating of Metals
	03-8	Electro-Deposition of Tin
	03-9	Electro-Deposition of Silver
	130	Chromate Passivation of Cadmium and Zinc Surfaces
	DIN	50961
50965		Tin Coatings on Iron and Copper Materials
50968		Electrodeposited coatings of nickel and nickel plus copper

Category	Spec Number	Spec Title
DIN	50979	Metallic coatings:- Electroplated Zn & Zn-alloy coatings on iron or steel with supplementary Cr(VI)-free treatment
	EN 12329	Electrodeposited coatings of zinc with supplementary treatment on iron and steel
	EN 12487	Corrosion Protection of Metals - Rinsed and Non-rinsed chromate conversion coatings on aluminium and aluminium alloys
	EN 2786	Aerospace series - Electrolytic silver plating of fasteners
	LN 9368-1	Aerospace-Designation of surface treatments - Composition of code numbers, indications in design documents, survey; Text in German and English
	LN 9368-3	Aerospace-Designation of surface treatments-Part 3: code numbers for methods of chemical treatments; Text in German and English
FEDERAL	QQ-P-35	Passivation Treatments for Corrosion-Resistant Steel
	QQ-P-416	Plating, Cadmium, Electrodeposited
	QQ-S-365	Silver Plating, Electrodeposited: General requirements For
	QQ-Z-325	Zinc Coating, Electrodeposited (Cancelled)
FED-STD	141	Adhesion (Wet) Tape Test Method 6301.3
ISO	10309	Metallic coatings - porosity test -Ferroxyl test
	1456	Metallic and other inorganic coatings - Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nickel plus chromium
	17025	General requirements for the competence of testing and calibration laboratories
	2081	Metallic coatings - electroplated coatings of zinc on Iron or steel
	2082	Metallic coatings - Electroplated coatings of cadmium on iron or steel
	2093	Electroplated coatings of tin - specification and test methods
	2179	Electroplated coatings of tin-nickel alloy
	27831-1	Metallic and other inorganic coatings - Cleaning and preparation of metal surfaces
	2819	Metallic coatings on metallic substrates - Electrodeposited and chemically deposited coatings - Review of methods available for testing adhesion
	2859-1	Sampling procedures for inspection by attributes - Part 1
	3497	Metallic coatings - measurement of coating thickness - X-ray spectrometric methods
	3613	Metallic and other inorganic coatings - Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc-aluminium alloys - Test methods
	3892	Conversion coatings on Metallic Materials - Determination of coating mass per unit area - Gravimetric methods
	4042	Fasteners - Electroplated Coatings - Coating Systems
	4520	Chromate conversion coatings on electroplated zinc and cadmium coatings
	4527	Metallic coatings - autocatalytic (electroless) nickel-phosphorus alloy coatings - specification and test methods
	9000	Quality management systems-Fundamentals & Vocabulary
	9001	Quality management systems - Fundamentals and vocabulary
	9227	Corrosion tests in artificial atmospheres - Salt Spray Tests
	9588	Metallic and other inorganic coatings - Post-coating treatments of iron or steel to reduce the risk of hydrogen embrittlement
J-STD	002	Solderability Tests for Component Leads, Terminations, Lugs, Terminals and Wires

Category	Spec Number	Spec Title
MIL	C-14550	Copper Plating, (Electrodeposited)
	C-26074	Coatings, Electroless Nickel, Requirements For
	C-5541	Chemical Conversion Coatings on Aluminium and Aluminium Alloys
	C-81706	Chemical Conversion Materials for Coating Aluminium and Aluminium Alloys
	DTL-13924	Coating, Oxide, Black, For Ferrous Metals
	DTL-16232	Phosphate Coating, Heavy, Manganese or Zinc Base
	DTL-32648	Zinc Nickel Plating, Low Hydrogen Embrittlement Electro-Deposition
	DTL-45204	Gold Plating, Electrodeposited
	DTL-5002	Surface Treatments and Inorganic Coatings for Metal Surfaces of Weapons Systems
	DTL-5541	Chemical Conversion Coatings on Aluminium and Aluminium Alloys
	DTL-81706	Chemical Conversion Materials for Coating Aluminium and Aluminium Alloys
	F-14072	Finishes for Ground Based Electronic Equipment
	F-495	Finish, Chemical Black, For Copper Alloys
	G-45204	Gold Plating, Electrodeposited
	L-0046010	Lubricant, Solid Film, Heat Cured, Corrosion Inhibiting
	L-23398	Lubricant, Solid Film, Air-Cured, Corrosion Inhibiting, NATO Code Number S-749
	P-18317	Plating, Black Nickel (Electrodeposited) on Brass, Bronze, or Steel
	P-27418	Plating, Soft Nickel (Electrodeposited, Sulfamate Bath)
	P-45209	Palladium Plating, Electrodeposited
	P-81728	Plating, Tin-Lead (Electrodeposited)
	PRF-46010	Lubricant, Solid film, Heat Cured, Corrosion Inhibiting Nato Code-S-1738
	PRF-85582	Primer Coatings: Epoxy, Waterborne
	R-46085	Rhodium Plating, Electrodeposited
	S-5002	Surface Treatments and Inorganic Coatings for Metal Surfaces of Weapons Systems
	STD-105	Sampling Procedures and Tables for Inspection by Attributes
	STD-171	Finishing of Metal and Wood Surfaces
	STD-202	Method 208H Solderability
	STD-753	Corrosion-Resistant Steel Parts: Sampling, Inspection and Testing for Surface Passivation
	STD-868	Nickel Plating, Low Embrittlement, Electro-Deposition
	STD-870	Cadmium Plating, Low Embrittlement, Electrodeposition
T-10727	Tin Plating: Electrodeposited or Hot-Dipped, for ferrous and nonferrous metals	
T-12879	Treatments, Chemical, Prepaint and Corrosion Inhibitive, for Zinc Surfaces	
T-81955 (OS)	Tin Plating, Immersion for Copper and Copper Alloys	
SAE	AMS2400	Plating, Cadmium
	AMS2402	Plating, Zinc
	AMS2403	Plating, Nickel General Purpose
	AMS2404	Plating, Electroless Nickel
	AMS2405	Electroless Nickel Plating Low Phosphorus
	AMS2408	Plating, Tin
	AMS2410	Plating, Silver Nickel Strike, High Bake

Category	Spec Number	Spec Title
SAE	AMS2417	Plating, Zinc-Nickel Alloy
	AMS2418	Plating, Copper
	AMS2422	Plating, Gold
	AMS2423	Plating, Nickel Hard Deposit
	AMS2424	Plating Nickel Low-Stressed Deposit
	AMS2454	Plating, Electroless Nickel, Codeposited with Polytetrafluoroethylene (PTFE)
	AMS2480	Zinc Phosphate Treatment Paint Base
	AMS2700	Passivation of Corrosion Resistant Steels
	AMS2759/1	Heat Treatment of Carbon and Low-Alloy Steel Parts Minimum Tensile Strength Below 220ksi (1517 Mpa)
	AMS2759/2	Heat Treatment of Low-Alloy Steel Parts Minimum Tensile Strength 220 ksi (1517 Pma) and Higher
	AMS2759/3	Heat Treatment Precipitation-Hardening Corrosion-Resistant and Maraging Steel Parts
	AMS2759/9	(R) Hydrogen Embrittlement Relief (Baking) of Steel Parts
	AMS2770	Heat Treatment of Wrought Aluminum Alloy Parts
	AMS-C-26074	Electroless Nickel Coatings
	AMS-P-81728	Plating, Tin-Lead (Electrodeposited)
	AMS-QQ-N-290	Nickel Plating (Electrodeposited)
	AMS-QQ-P-35	Passivation Treatments for Corrosion-Resistant Steel
	AMS-QQ-P-416	Plating, Cadmium (Electrodeposited)
	AMS-STD-753	Corrosion-Resistant Steel Parts:Sampling, Inspection and Testing for Surface Passivation
	AS5272	Lubricant, Solid Film, Heat Cured, Corrosion Inhibiting, Procurement Specification
	AS9102	Aerospace First Article Inspection Requirement