

ASTM Volume 02.05, May 2026

Table of Contents

B697-88(2021) Standard Guide for Selection of Sampling Plans for Inspection of Electrodeposited Metallic and Inorganic Coatings

B679-98(2021) Standard Specification for Electrodeposited Coatings of Palladium for Engineering Use

B762-21 Standard Guide of Variables Sampling of Metallic and Inorganic Coatings

B490-09(2021) Standard Practice for Micrometer Bend Test for Ductility of Electrodeposits

B636/B636M-15(2021) Standard Test Method for Measurement of Internal Stress of Plated Metallic Coatings with the Spiral Contractometer

B634-14a(2021) Standard Specification for Electrodeposited Coatings of Rhodium for Engineering Use

B244-09(2021) Standard Test Method for Measurement of Thickness of Anodic Coatings on Aluminum and of Other Nonconductive Coatings on Nonmagnetic Basis Metals with Eddy-Current Instruments

B530-09(2021) Standard Test Method for Measurement of Coating Thicknesses by the Magnetic Method: Electrodeposited Nickel Coatings on Magnetic and Nonmagnetic Substrates

B532-85(2021) Standard Specification for Appearance of Electroplated Plastic Surfaces

B507-14(2021) Standard Practice for Design of Articles to Be Electroplated on Racks

C539-84(2021) Standard Test Method for Linear Thermal Expansion of Porcelain Enamel and Glaze Frits and Ceramic Whiteware Materials by Interferometric Method

B568-98(2021) Standard Test Method for Measurement of Coating Thickness by X-Ray Spectrometry

B764-04(2021) Standard Test Method for Simultaneous Thickness and Electrode Potential Determination of Individual Layers in Multilayer Nickel Deposit (STEP Test)

C774-88(2021) Standard Test Method for Yield Strength of Enameling Steels After Straining and Firing

C632-88(2021) Standard Test Method for Reboiling Tendency of Sheet Steel for Porcelain Enameling

B659-90(2021) Standard Guide for Measuring Thickness of Metallic and Inorganic Coatings

B567-98(2021) Standard Test Method for Measurement of Coating Thickness by the Beta Backscatter Method

C448-88(2021) Standard Test Methods for Abrasion Resistance of Porcelain Enamels

B499-09(2021)e1 Standard Test Method for Measurement of Coating Thicknesses by the Magnetic Method: Nonmagnetic Coatings on Magnetic Basis Metals

C756-87(2021) Standard Test Method for Cleanability of Surface Finishes

C703-72(2021) Standard Test Methods for Spalling Resistance of Porcelain Enameled Aluminum

B700-20 Standard Specification for Electrodeposited Coatings of Silver for Engineering Use

B1000-21 Standard Practices for Casting Preparation and Test Procedure of Porcelain Enamel-lined Pipe, Fittings, and Valves for Use in the Municipal Wastewater, Sewage, and Water Treatment Industry

B595-21 Standard Specification for Materials for Aluminum Powder Metallurgy (PM) Structural Parts

B368-21 Standard Test Method for Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS Test)

B853-16(2021)e1 Standard Specification for Powder Metallurgy (PM) Boron Stainless Steel Structural Components

B703-21 Standard Test Method for Apparent Density of Metal Powders and Related Compounds Using the Arnold Meter

B848/B848M-21 Standard Specification for Powder Forged (PF) Ferrous Materials

B912-02(2018) Standard Specification for Passivation of Stainless Steels Using Electropolishing

R0001 Cross Index of Standards for Metal Powders and Metal Powder Products

B761-17(2021) Standard Test Method for Particle Size Distribution of Metal Powders and Related Compounds by X-Ray Monitoring of Gravity Sedimentation

B930-03(2021) Standard Test Method for Rating Grain Size and Frequency of Abnormally Large Grains in Cemented Tungsten Carbides (Hardmetals)

B940-05(2020) Standard Practice for Testing Non-Chromate Coatings on Zinc and Cadmium Surfaces

D1731-09(2020) Standard Practices for Preparation of Hot-Dip Aluminum Surfaces for Painting

D1730-09(2020) Standard Practices for Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting

B984-12(2020)e1 Standard Specification for Electrodeposited Coatings of Palladium-Cobalt Alloy for Engineering Use

B137-95(2021) Standard Test Method for Measurement of Coating Mass Per Unit Area on Anodically Coated Aluminum

B177/B177M-11(2021) Standard Guide for Engineering Chromium Electroplating

B630-88(2021) Standard Practice for Preparation of Chromium for Electroplating with Chromium

B578-21 Standard Test Method for Microindentation Hardness of Electroplated Coatings

B607-21 Standard Specification for Autocatalytic Nickel Boron Coatings for Engineering Use

B528-16(2020)e1 Standard Test Method for Transverse Rupture Strength of Powder Metallurgy (PM) Specimens

B252-92(2020) Standard Guide for Preparation of Zinc Alloy Die Castings for Electroplating and Conversion Coatings

B851-04(2020) Standard Specification for Automated Controlled Shot Peening of Metallic Articles Prior to Nickel, Autocatalytic Nickel, or Chromium Plating, or as Final Finish

B343-92a(2020) Standard Practice for Preparation of Nickel for Electroplating with Nickel

B727-04(2020) Standard Practice for Preparation of Plastics Materials for Electroplating

B254-92(2020)e1 Standard Practice for Preparation of and Electroplating on Stainless Steel

B695-21 Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel

B995-15a(2021) Standard Test Method for Chloride Resistance Test for Chromium Electroplated Parts (Russian Mud Test)

C283-13(2021) Standard Test Methods for Resistance of Porcelain Enameled Utensils to Boiling Acid

B748-90(2021) Standard Test Method for Measurement of Thickness of Metallic Coatings by Measurement of Cross Section with a Scanning Electron Microscope

B767-88(2021) Standard Guide for Determining Mass Per Unit Area of Electrodeposited and Related Coatings by Gravimetric and Other Chemical Analysis Procedures

B905-00(2021) Standard Test Methods for Assessing the Adhesion of Metallic and Inorganic Coatings by the Mechanized Tape Test

B916-01(2021) Standard Test Method for Adherence of Porcelain Enamel Coatings to Sheet Metal

B602-21 Standard Guide for Attribute Sampling of Metallic and Inorganic Coatings

B276-21 Standard Test Method for Apparent Porosity in Cemented Carbides

B925-15(2022) Standard Practices for Production and Preparation of Powder Metallurgy (PM) Test Specimens

B922-22 Standard Test Method for Metal Powder Specific Surface Area by Physical Adsorption

B294-22 Standard Test Method for Hardness Testing of Cemented Carbides

E1338-09(2021)e1 Standard Guide for Identification of Metals and Alloys in Computerized Material Property Databases

B733-22 Standard Specification for Autocatalytic (Electroless) Nickel-Phosphorus Coatings on Metal

B994/B994M-22 Standard Specification for Nickel-Cobalt Alloy Coating

B915-22 Standard Test Method for Measuring Static Heat Resistance of Self-Cleaning Oven Coating

B579-22 Standard Specification for Electrodeposited Coatings of Tin-Lead Alloy (Solder Plate)

C375-22 Standard Classification of Water Used in Milling of Porcelain Enamel

C286-22 Standard Terminology Relating to Porcelain Enamel and Ceramic-Metal Systems

B253-11(2022) Standard Guide for Preparation of Aluminum Alloys for Electroplating

B480-88(2022) Standard Guide for Preparation of Magnesium and Magnesium Alloys for Electroplating

B850-98(2022) Standard Guide for Post-Coating Treatments of Steel for Reducing the Risk of Hydrogen Embrittlement

B879-17(2022) Standard Practice for Applying Non-Electrolytic Conversion Coatings on Magnesium and Magnesium Alloys

B999-15(2022) Standard Specification for Titanium and Titanium Alloys Plating, Electrodeposited Coatings of Titanium and Titanium Alloys on Conductive and Non-Conductive Substrate

B214-22 Standard Test Method for Sieve Analysis of Metal Powders

B855-22 Standard Test Method for Volumetric Flow Rate of Metal Powders Using the Arnold Meter and Hall Flowmeter Funnel

B311-22 Standard Test Method for Density of Powder Metallurgy (PM) Materials Containing Less Than Two Percent Porosity

B1023-22 Standard Test Method for Abrasion Resistance of Hard Anodic Coatings by a Taber-Type Abraser

B988-18(2022) Standard Specification for Powder Metallurgy (PM) Titanium and Titanium Alloy Structural Components

E159-22 Standard Test Method for Loss of Mass in a Reducing Gas Atmosphere for Cobalt, Copper, Tungsten, and Iron Powders (Hydrogen Loss)

B183-18(2022) Standard Practice for Preparation of Low-Carbon Steel for Electroplating

B449-93(2022) Standard Specification for Chromates on Aluminum

B456-17(2022) Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium

B537-22 Standard Practice for Rating of Electroplated Panels Subjected to Atmospheric Exposure

C385-58(2022) Standard Test Method for Thermal Shock Resistance of Porcelain-Enameled Utensils

B200-22 Standard Specification for Electrodeposited Coatings of Lead and Lead-Tin Alloys on Steel and Ferrous Alloys

B545-22 Standard Specification for Electrodeposited Coatings of Tin

B840-22 Standard Specification for Electrodeposited Coatings of Zinc Cobalt Alloy Deposits

B605-22 Standard Specification for Electrodeposited Coatings of Tin-Nickel Alloy

B975-22 Standard Test Method for Measurement of Internal Stress of Metallic Coatings by Split Strip Evaluation (Deposit Stress Analyzer Method)

B633-23 Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel

B873-23 Standard Test Method for Measuring Volume of Apparent Density Cup Used in Test Methods B212, B329, and B417

B931-23 Standard Test Method for Metallographically Estimating the Observed Case Depth of Ferrous Powder Metallurgy (PM) Parts

B821-23 Standard Guide for Liquid Dispersion of Metal Powders and Related Compounds for Particle Size Analysis

B946-23 Standard Test Methods for Surface Roughness of Powder Metallurgy (PM) Products

B136-23 Standard Test Method for Measurement of Stain Resistance of Anodic Coatings on Aluminum

B766-23 Standard Specification for Electrodeposited Coatings of Cadmium

B842-23 Standard Specification for Electrodeposited Coatings of Zinc Iron Alloy Deposits

B893-23 Standard Specification for Hard-Coat Anodizing of Magnesium for Engineering Applications

B380-97(2023) Standard Test Method for Corrosion Testing of Decorative Electrodeposited Coatings by the Corrodkote Procedure

C536-83(2023) Standard Test Method for Continuity of Coatings in Glassed Steel Equipment by Electrical Testing

B489-85(2023) Standard Practice for Bend Test for Ductility of Electrodeposited and Autocatalytically Deposited Metal Coatings on Metals

B504-90(2023) Standard Test Method for Measurement of Thickness of Metallic Coatings by the Coulometric Method

B635-00(2023) Standard Specification for Coatings of Cadmium-Tin Mechanically Deposited

B689-97(2023) Standard Specification for Electroplated Engineering Nickel Coatings

B696-00(2023) Standard Specification for Coatings of Cadmium Mechanically Deposited

C537-87(2023) Standard Test Method for Reliability of Glass Coatings on Glassed Steel Reaction Equipment by High Voltage

B962-23 Standard Test Methods for Density of Compacted or Sintered Powder Metallurgy (PM) Products Using Archimedes' Principle

B657-23 Standard Guide for Metallographic Identification of Microstructure in Cemented Carbides

B571-23 Standard Practice for Qualitative Adhesion Testing of Metallic Coatings

B921-08(2023) Standard Specification for Non-hexavalent Chromium Conversion Coatings on Aluminum and Aluminum Alloys

B555-86(2023) Standard Guide for Measurement of Electrodeposited Metallic Coating Thicknesses by Dropping Test

B556-90(2023) Standard Guide for Measurement of Thin Chromium Coatings by Spot Test

B734-97(2023) Standard Specification for Electrodeposited Copper for Engineering Uses

B765-03(2023) Standard Guide for Selection of Porosity and Gross Defect Tests for Electrodeposits and Related Metallic Coatings

B832-93(2023) Standard Guide for Electroforming with Nickel and Copper

B867-95(2023) Standard Specification for Electrodeposited Coatings of Palladium-Nickel for Engineering Use

B849-02(2023) Standard Specification for Pre-Treatments of Iron or Steel for Reducing Risk of Hydrogen Embrittlement

B874-96(2023) Standard Specification for Chromium Diffusion Coating Applied by Pack Cementation Process

D1732-03(2023) Standard Practices for Preparation of Magnesium Alloy Surfaces for Painting

B923-23 Standard Test Method for Metal Powder Skeletal Density by Helium or Nitrogen Pycnometry

B650-23 Standard Specification for Electrodeposited Engineering Chromium Coatings on Ferrous Substrates

B883-24 Standard Specification for Metal Injection Molded (MIM) Materials

B886-24 Standard Test Method for Determination of Magnetic Saturation (Ms) of Cemented Carbides

B963-24 Standard Test Methods for Oil Content, Oil-Impregnation Efficiency, and Surface-Connected Porosity of Sintered Powder Metallurgy (PM) Products Using Archimedes' Principle

B533-85(2024) Standard Test Method for Peel Strength of Metal Electroplated Plastics

B651-83(2024) Standard Test Method for Measurement of Corrosion Sites in Nickel Plus Chromium or Copper Plus Nickel Plus Chromium Electroplated Surfaces with Double-Beam Interference Microscope

B481-24 Standard Practice for Preparation of Titanium and Titanium Alloys for Electroplating

B201-80(2024) Standard Practice for Testing Chromate Coatings on Zinc and Cadmium Surfaces

B680-24 Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution

B875-96(2024) Standard Specification for Aluminum Diffusion Coating Applied by Pack Cementation Process

B604-24 Standard Specification for Decorative Electroplated Coatings of Copper Plus Nickel Plus Chromium on Plastics

B1026-24 Standard Test Method for Measurement of Thickness of Chromium and Chromium Alloy Deposits by the Coulometric/White Light Interferometry

B527-24 Standard Test Method for Tap Density of Metal Powders and Compounds

B610-24 Standard Test Method for Measuring Dimensional Changes Associated with Processing Metal Powders Intended for Die Compaction

B665-24 Standard Guide for Metallographic Sample Preparation of Cemented Tungsten Carbides

B329-24 Standard Test Method for Apparent Density of Metal Powders and Compounds Using the Scott Volumeter

B796-24 Standard Test Method for Nonmetallic Inclusion Content of Ferrous Powders Intended for Powder Forging (PF) Applications

B797-24 Standard Test Method for Surface Finger-Oxide Penetration Depth and Presence of Interparticle Oxide Networks in Powder Forged (PF) Steel Parts

C743-24 Standard Test Method for Continuity of Porcelain Enamel Coatings

B795-24 Standard Test Method for Determining the Percentage of Alloyed or Unalloyed Iron Contamination Present in Powder Forged (PF) Steel Materials

B330-20(2024)e1 Standard Test Methods for Estimating Average Particle Size of Metal Powders and Related Compounds Using Air Permeability

B823-20(2024) Standard Specification for Materials for Copper Base Powder Metallurgy (PM) Structural Parts

B895-16(2024) Standard Test Methods for Evaluating the Corrosion Resistance of Stainless Steel Powder Metallurgy (PM) Parts/Specimens by Immersion in a Sodium Chloride Solution

B935-20(2024) Standard Guide for Steam Treatment of Ferrous Powder Metallurgy (PM) Materials

E194-20(2024) Standard Test Method for Acid-Insoluble Content of Copper and Iron Powders

C285-24 Standard Test Methods for Sieve Analysis of Wet-Milled and Dry-Milled Porcelain Enamel

C664-24 Standard Test Methods for Thickness of Diffusion Coating

C839-24 Standard Test Method for Compressive Stress of Porcelain Enamels by Loaded-Beam Method

B841-18(2024) Standard Specification for Electrodeposited Coatings of Zinc Nickel Alloy Deposits

C633-24 Standard Test Method for Adhesion or Cohesion Strength of Thermal Spray Coatings

C660-24 Standard Practices for Production and Preparation of Gray Iron Castings for Porcelain Enameling

B487-24 Standard Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of Cross Section

B783-24 Standard Specification for Materials for Ferrous Powder Metallurgy (PM) Structural Parts

C282-24 Standard Test Method for Acid Resistance of Porcelain Enamels(Citric Acid Spot Test)

B866-24 Standard Test Method for Gross Defects and Mechanical Damage in Metallic Coatings by Polysulfide Immersion

C614-20(2025) Standard Test Method for Alkali Resistance of Porcelain Enamels

C872-10(2025) Standard Test Method for Lead and Cadmium Release from Porcelain Enamel Surfaces

B374-24 Standard Terminology Relating to Electroplating

C374-25 Standard Test Methods for Fusion Flow of Porcelain Enamel Frits (Flow-Button Methods)

B215-20(2025) Standard Practices for Sampling Metal Powders

B331-25 Standard Test Method for Compressibility of Metal Powders in Uniaxial Compaction

B809-25 Standard Test Method for Porosity in Metallic Coatings by Humid Sulfur Vapor ("Flowers-of-Sulfur")

B887-25 Standard Test Method for Determination of Coercivity (H_{cs}) of Cemented Carbides

B580-25 Standard Specification for Anodic Oxide Coatings on Aluminum

B904-25 Standard Specification for Autocatalytic Nickel over Autocatalytic Copper for Electromagnetic Interference Shielding

B281-88(2025) Standard Practice for Preparation of Copper and Copper-Base Alloys for Electroplating and Conversion Coatings

B1025-25 Standard Specification for Electrodeposited Nanostructured Zinc-Nickel Coatings

B212-25 Standard Test Method for Apparent Density of Free-Flowing Metal Powders Using the Hall Flowmeter Funnel

B213-25 Standard Test Methods for Flow Rate of Metal Powders Using the Hall Flowmeter Funnel

B417-25 Standard Test Method for Apparent Density of Non-Free-Flowing Metal Powders Using the Carney Funnel

B964-25 Standard Test Methods for Flow Rate of Metal Powders Using the Carney Funnel

B243-25 Standard Terminology of Powder Metallurgy

B488-18(2025) Standard Specification for Electrodeposited Coatings of Gold for Engineering Uses

B822-25 Standard Test Method for Particle Size Distribution of Metal Powders and Related Compounds by Light Scattering

B629-25 Standard Practice for Preparation of Molybdenum and Molybdenum Alloys for Electroplating

B877-25 Standard Test Method for Gross Defects and Mechanical Damage in Metallic Coatings by the Phosphomolybdic Acid (PMA) Method

B406-96(2025) Standard Test Method for Transverse Rupture Strength of Cemented Carbides

B771-11(2025) Standard Test Method for Short Rod Fracture Toughness of Cemented Carbides

B859-21(2025) Standard Practice for De-Agglomeration of Refractory Metal Powders and Their Compounds Prior to Particle Size Analysis

B934-21(2025) Standard Test Method for Effective Case Depth of Ferrous Powder Metallurgy (PM) Parts Using Microindentation Hardness Measurements

B939-21(2025) Standard Test Method for Radial Crushing Strength, K, of Powder Metallurgy (PM) Bearings and Structural Materials

B312-25 Standard Test Method for Green Strength of Specimens Compacted from Metal Powders

B438-25 Standard Specification for Bronze-Base Powder Metallurgy (PM) Bearings (Oil-Impregnated)

B439-25 Standard Specification for Iron-Base Powder Metallurgy (PM) Bearings (Oil-Impregnated)

B890-25 Standard Test Method for Determination of Metallic Constituents of Tungsten Alloys and Tungsten Hardmetals by X-Ray Fluorescence Spectrometry

B933-25 Standard Test Method for Microindentation Hardness of Powder Metallurgy (PM) Materials

B678-25 Standard Test Method for Solderability of Metallic-Coated Products

B558-25 Standard Practice for Preparation of Nickel Alloys for Electroplating

B320-25 Standard Practice for Preparation of Iron Castings for Electroplating

B482-25 Standard Practice for Preparation of Tungsten and Tungsten Alloys for Electroplating

B242-99(2025) Standard Guide for Preparation of High-Carbon Steel for Electroplating

B319-91(2025) Standard Guide for Preparation of Lead and Lead Alloys for Electroplating

B322-99(2025) Standard Guide for Cleaning Metals Prior to Electroplating