

ASTM Volume 03.05, October 2024

E415-21 Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry

E389-21 Standard Test Method for Particle Size or Screen Analysis at 4.75 mm (No.4) Sieve and Coarser for Metal-Bearing Ores and Related Materials

E1898-21 Standard Test Method for Determination of Silver in Copper Concentrates by Flame Atomic Absorption Spectrometry

E1184-21 Standard Practice for Determination of Elements by Graphite Furnace Atomic Absorption Spectrometry

E2242-21 Standard Test Method for Column Percolation Extraction of Mine Rock by the Meteoric Water Mobility Procedure

E877-21 Standard Practice for Sampling and Sample Preparation of Iron Ores and Related Materials for Determination of Chemical Composition and Physical Properties

E246-21 Standard Test Methods for Determination of Iron in Iron Ores and Related Materials by Dichromate Titrimetry

E2294-21 Standard Practice for Proof Silver Corrections in Metal Bearing Ores, Concentrates, and Related Materials by Fire Assay Gravimetry

E1805-21 Standard Test Method for Determination of Gold in Copper Concentrates by Fire Assay Gravimetry

E508-21 Standard Test Method for Determination of Calcium and Magnesium in Iron Ores by Flame Atomic Absorption Spectrometry

E507-21 Standard Test Method for Determination of Aluminum in Iron Ores by Flame Atomic Absorption Spectrometry

E463-21 Standard Test Method for Determination of Silica in Fluorspar by Silico-Molybdate

Visible Spectrophotometry

E278-21 Standard Test Method for Determination of Phosphorus in Iron Ores by Phosphomolybdate Coprecipitation and Nitric Acid Titrimetry

E247-21 Standard Test Method for Determination of Silica in Manganese Ores, Iron Ores, and Related Materials by Gravimetry

E382-20 Standard Test Method for Determination of Crushing Strength of Iron Ore Pellets and Direct-Reduced Iron

E1915-20 Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials for Carbon, Sulfur, and Acid-Base Characteristics

E279-18 Standard Test Method for Determination of Abrasion Resistance of Iron Ore Pellets, Lump, and Sinter by the Tumbler Test

E406-19 Standard Practice for Using Controlled Atmospheres in Atomic Emission Spectrometry

E372-21 Standard Test Method for Determination of Calcium and Magnesium in Magnesium Ferrosilicon by EDTA Titrimetry

E32-21 Standard Practices for Sampling Ferroalloys and Steel Additives for Determination of Chemical Composition

E305-21 Standard Practice for Establishing and Controlling Spark Atomic Emission Spectrochemical Analytical Curves

E572-21 Standard Test Method for Analysis of Stainless and Alloy Steels by Wavelength Dispersive X-Ray Fluorescence Spectrometry

E738-20 Standard Test Method for Determination of Aluminum in Iron Ores and Related Materials by EDTA Complexometric Titrimetry

E878-20 Standard Test Method for Determination of Titanium in Iron Ores and Related

Materials by Diantipyrylmethane Ultraviolet Spectrophotometry

E1257-16 Standard Guide for Evaluating Grinding Materials Used for Surface Preparation in Spectrochemical Analysis

E248-20 Standard Test Method for Determination of Manganese in Manganese Ores by Pyrophosphate Complexed Permanganate Potentiometric Titrimetry

E478-08(2017) Standard Test Methods for Chemical Analysis of Copper Alloys

E2093-12(2016) Standard Guide for Optimizing, Controlling and Assessing Test Method Uncertainties from Multiple Workstations in the Same Laboratory Organization

E2823-17 Standard Test Method for Analysis of Nickel Alloys by Inductively Coupled Plasma Mass Spectrometry (Performance-Based)

E314-16 Standard Test Methods for Determination of Manganese in Iron Ores by Pyrophosphate Potentiometry and Periodate Spectrophotometry Techniques

E1479-16 Standard Practice for Describing and Specifying Inductively Coupled Plasma Atomic Emission Spectrometers

E3061-17 Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Inductively Coupled Plasma Atomic Emission Spectrometry (Performance Based Method)

E2050-17 Standard Test Method for Determination of Total Carbon in Mold Powders by Combustion

E1587-17 Standard Test Methods for Chemical Analysis of Refined Nickel

E1832-08(2017) Standard Practice for Describing and Specifying a Direct Current Plasma Atomic Emission Spectrometer

E88-11(2017) Standard Practice for Sampling Nonferrous Metals and Alloys in Cast Form for Determination of Chemical Composition

E50-17 Standard Practices for Apparatus, Reagents, and Safety Considerations for Chemical Analysis of Metals, Ores, and Related Materials

E1070-17a Standard Test Method for Determination of Phosphorus in Iron Ores by Phospho-Molybdenum-Blue Spectrophotometry

E1097-12(2017) Standard Guide for Determination of Various Elements by Direct Current Plasma Atomic Emission Spectrometry

E316-17 Standard Test Method for Determination of Iron in Manganese Ores by Hydrogen Sulfide Reduction-Dichromate Titrimetry

E396-17 Standard Test Methods for Chemical Analysis of Cadmium

E882-10(2016)e1 Standard Guide for Accountability and Quality Control in the Chemical Analysis Laboratory

E1834-18 Standard Test Method for Analysis of Nickel Alloys by Graphite Furnace Atomic Absorption Spectrometry

E351-18 Standard Test Methods for Chemical Analysis of Cast Iron—All Types

E2594-20 Standard Test Method for Analysis of Nickel Alloys by Inductively Coupled Plasma Atomic Emission Spectrometry (Performance-Based)

E1938-13(2018) Standard Test Method for Determination of Titanium in Nickel Alloys by Diantipyrylmethane Spectrophotometry

E1917-13(2018) Standard Test Method for Determination of Phosphorus in Nickel, Ferronickel, and Nickel Alloys by Phosphovanadomolybdate Spectrophotometry

E539-19 Standard Test Method for Analysis of Titanium Alloys by Wavelength Dispersive X-Ray Fluorescence Spectrometry

E1770-19 Standard Practice for Optimization of Instrumentation for Graphite Furnace Atomic Absorption Spectrometry

E1852-19 Standard Test Method for Determination of Low Levels of Antimony in Carbon and Low-Alloy Steel by Graphite Furnace Atomic Absorption Spectrometry

E1916-11(2019) Standard Guide for Identification of Mixed Lots of Metals

E2972-15(2019) Standard Guide for Production, Testing, and Value Assignment of In-House Reference Materials for Metals, Ores, and Other Related Materials

E2293-19 Standard Practice for Drying of Metal Bearing Ores, Concentrates, and Related Metallurgical Materials for the Determination of Mercury

E1601-19 Standard Practice for Conducting an Interlaboratory Study to Evaluate the Performance of an Analytical Method

E1251-17a Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry

E1941-10(2016) Standard Test Method for Determination of Carbon in Refractory and Reactive Metals and Their Alloys by Combustion Analysis

E1335-08(2017) Standard Test Methods for Determination of Gold in Bullion by Fire Assay Cupellation Analysis

E2941-21 Standard Practices for Extraction of Elements from Ores and Related Metallurgical Materials by Acid Digestion

E1019-18 Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Inert Gas Fusion Techniques

E2575-19 Standard Test Method for Determination of Oxygen in Copper and Copper Alloys by Inert Gas Fusion

E1361-02(2021) Standard Guide for Correction of Interelement Effects in X-Ray Spectrometric Analysis

E2296-21 Standard Practice for Silver Corrections in Metal Bearing Ores, Concentrates, and Related Metallurgical Materials by Fire Assay Slag Recycling and Cupel Proof Gravimetry

E276-21 Standard Test Method for Particle Size or Screen Analysis at 4.75 mm (No. 4) Sieve and Finer for Metal-Bearing Ores and Related Materials

E2295-21 Standard Practice for Fire Assay Silver Corrections in Analysis of Metal Bearing Ores, Concentrates, and Related Metallurgical Materials by Silver Determination in Slags and Cupels

E1568-21 Standard Test Method for Determination of Gold in Activated Carbon by Fire Assay Gravimetry

E2792-21 Standard Test Method for Determination of Hydrogen in Aluminum and Aluminum Alloys by Inert Gas Fusion

E2994-21 Standard Test Method for Analysis of Titanium and Titanium Alloys by Spark Atomic Emission Spectrometry and Glow Discharge Atomic Emission Spectrometry (Performance-Based Method)

E2371-21a 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)

E1282-21 Standard Guide for Specifying the Chemical Compositions and Selecting Sampling Practices and Quantitative Analysis Methods for Metals, Ores, and Related Materials

E1409-13(2021) Standard Test Method for Determination of Oxygen and Nitrogen in Titanium and Titanium Alloys by Inert Gas Fusion

E353-19e1 Standard Test Methods for Chemical Analysis of Stainless, Heat-Resisting, Maraging, and Other Similar Chromium-Nickel-Iron Alloys

E354-21e1 Standard Test Methods for Chemical Analysis of High-Temperature, Electrical, Magnetic, and Other Similar Iron, Nickel, and Cobalt Alloys

E3330-22 Standard Guide for Contents of Documentation and Statistical Treatments for Reference Materials for Metals, Ores, and Related Materials

E2857-22 Standard Guide for Validating Analytical Methods

E1447-22 Standard Test Method for Determination of Hydrogen in Reactive Metals and Reactive Metal Alloys by Inert Gas Fusion with Detection by Thermal Conductivity or Infrared Spectrometry

E60-11(2022)e1 Standard Practice for Analysis of Metals, Ores, and Related Materials by Spectrophotometry

E367-22 Standard Test Methods for Chemical Analysis of Ferroniobium

E1621-22 Standard Guide for Elemental Analysis by Wavelength Dispersive X-Ray Fluorescence Spectrometry

E1306-22 Standard Practice for Preparation of Metal and Alloy Samples by Electric Arc Melting for Spectrochemical Analysis

E1835-14(2022) Standard Test Method for Analysis of Nickel Alloys by Flame Atomic Absorption Spectrometry

E1086-22 Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry

E2209-22 Standard Test Method for Analysis of High Manganese Steel by Spark Atomic Emission Spectrometry

E716-16(2021)e2 Standard Practices for Sampling and Sample Preparation of Aluminum and Aluminum Alloys for Determination of Chemical Composition by Spark Atomic Emission Spectrometry

E581-17A(2022)e1 Standard Test Methods for Chemical Analysis of Manganese-Copper Alloys

E3047-22 Standard Test Method for Analysis of Nickel Alloys by Spark Atomic Emission Spectrometry

E1085-22 Standard Test Method for Analysis of Low-Alloy Steels by Wavelength Dispersive X-Ray Fluorescence Spectrometry

E1473-22 Standard Test Methods for Chemical Analysis of Nickel, Cobalt, and High-Temperature Alloys

E1172-22 Standard Practice for Describing and Specifying a Wavelength Dispersive X-Ray Spectrometer

E3346-22 Standard Guide for Combustion, Inert Gas Fusion and Hot Extraction Instruments for use in Analyzing Metals, Ores, and Related Materials

E520-08(2023) Standard Practice for Describing Photomultiplier Detectors in Emission and Absorption Spectrometry

E342-23 Standard Test Method for Determination of Chromium Oxide in Chrome Ores by Permanganate Titrimetry

E465-23 Standard Test Methods for Determination of Manganese (IV) in Manganese Ores by Redox Titrimetry

E1600-23 Standard Test Methods for Determination of Gold in Cyanide Solutions

E1277-23 Standard Test Method for Analysis of Zinc-5 % Aluminum-Mischmetal Alloys by Inductively Coupled Plasma Atomic Emission Spectrometry

E55-23 Standard Practice for Sampling Wrought Nonferrous Metals and Alloys for Determination of Chemical Composition

E255-23 Standard Practice for Sampling Copper and Copper Alloys for the Determination of Chemical Composition

E536-23 Standard Test Methods for Chemical Analysis of Zinc and Zinc Alloys

E634-23 Standard Practice for Sampling Zinc and Zinc Alloys for Analysis by Spark Atomic Emission Spectrometry

E1806-23 Standard Practice for Sampling Steel and Iron for Determination of Chemical Composition

E135-23a Standard Terminology Relating to Analytical Chemistry for Metals, Ores, and Related Materials

E439-23 Standard Test Methods for Chemical Analysis of Beryllium

E2824-23 Standard Test Method for Determination of Beryllium in Copper-Beryllium Alloys by Phosphate Gravimetry

E363-23 Standard Test Methods for Chemical Analysis of Chromium and Ferrochromium

E1999-23 Standard Test Method for Analysis of Cast Iron by Spark Atomic Emission Spectrometry

E815-17b(2023) Standard Test Method for Determination of Calcium Fluoride in Fluorspar by EDTA Complexometric Titrimetry

E350-23 Standard Test Methods for Chemical Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron

E352-23 Standard Test Methods for Chemical Analysis of Tool Steels and Other Similar Medium- and High-Alloy Steels

E2465-23 Standard Test Method for Analysis of Ni-Base Alloys by Wavelength Dispersive X-Ray Fluorescence Spectrometry