

ASTM Volume 14.03, July 2017

Temperature Measurement

Table of Contents

E1-14 Standard Specification for ASTM Liquid-in-Glass Thermometers

E77-14 Standard Test Method for Inspection and Verification of Thermometers

E100-15a Standard Specification for ASTM Hydrometers

E126-13a Standard Test Method for Inspection, Calibration, and Verification of ASTM Hydrometers

E207-08(2015)e1 Standard Test Method for Thermal EMF Test of Single Thermoelement Materials by Comparison with a Reference Thermoelement of Similar EMF-Temperature Properties

E220-13 Standard Test Method for Calibration of Thermocouples By Comparison Techniques

E230/E230M-12 Standard Specification and Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples

E235/E235M-12 Standard Specification for Type K and Type N Mineral-Insulated, Metal-Sheathed Thermocouples for Nuclear or for Other High-Reliability Applications

E344-16 Terminology Relating to Thermometry and Hydrometry

E452-02(2013) Standard Test Method for Calibration of Refractory Metal Thermocouples Using a Radiation Thermometer

E563-11(2016) Standard Practice for Preparation and Use of an Ice-Point Bath as a Reference Temperature

E574-13 Standard Specification for Duplex, Base Metal Thermocouple Wire With Glass Fiber or Silica Fiber Insulation

E585/E585M-12 Standard Specification for Compacted Mineral-Insulated, Metal-Sheathed, Base Metal Thermocouple Cable

E601-15 Standard Guide for Measuring Electromotive Force (emf) Stability of Base-Metal Thermoelement Materials with Time in Air

E608/E608M-13 Standard Specification for Mineral-Insulated, Metal-Sheathed Base Metal Thermocouples

E644-11 Standard Test Methods for Testing Industrial Resistance Thermometers

E696-07(2013) Standard Specification for Tungsten-Rhenium Alloy Thermocouple Wire

E780-17 Standard Test Method for Measuring the Insulation Resistance of Mineral-Insulated, Metal-Sheathed Thermocouples and Mineral-Insulated, Metal-Sheathed Cable at Room Temperature

E839-11(2016)e1 Standard Test Methods for Sheathed Thermocouples and Sheathed Thermocouple Cable

E879-12 Standard Specification for Thermistor Sensors for General

Purpose and Laboratory Temperature Measurements

E1129/E1129M-15 Standard Specification for Thermocouple Connectors

E1137/E1137M-08(2014) Standard Specification for Industrial Platinum Resistance Thermometers

E1159-15 Standard Specification for Thermocouple Materials, Platinum-Rhodium Alloys, and Platinum

E1256-15 Standard Test Methods for Radiation Thermometers (Single Waveband Type)

E1350-13 Standard Guide for Testing Sheathed Thermocouples, Thermocouples Assemblies, and Connecting Wires Prior to, and After Installation or Service

E1502-16 Standard Guide for Use of Fixed-Point Cells for Reference Temperatures

E1594-16 Standard Guide for Expression of Temperature

E1652-15 Standard Specification for Magnesium Oxide and Aluminum Oxide Powder and Crushable Insulators Used in the Manufacture of Base Metal Thermocouples, Metal-Sheathed Platinum Resistance Thermometers, and Noble Metal Thermocouples

E1684/E1684M-15 Standard Specification for Miniature Thermocouple Connectors

E1750-10(2016) Standard Guide for Use of Water Triple Point Cells

E1751/E1751M-15 Standard Guide for Temperature Electromotive Force (emf) Tables for Non-Letter Designated Thermocouple Combinations

E2181/E2181M-11 Standard Specification for Compacted Mineral-Insulated, Metal-Sheathed, Noble Metal Thermocouples and Thermocouple Cable

E2251-14 Standard Specification for Liquid-in-Glass ASTM Thermometers with Low-Hazard Precision Liquids

E2488-09(2014) Standard Guide for the Preparation and Evaluation of Liquid Baths Used for Temperature Calibration by Comparison

E2593-12 Standard Guide for Accuracy Verification of Industrial Platinum Resistance Thermometers

E2623-14 Standard Practice for Reporting Thermometer Calibrations

E2730-10(2015)e2 Standard Practice for Calibration and Use of Thermocouple Reference Junction Probes in Evaluation of Electronic Reference Junction Compensation Circuits

E2758-15a Standard Guide for Selection and Use of Wideband, Low Temperature Infrared Thermometers

E2820-13 Standard Test Method for Evaluating Thermal EMF Properties of Base-Metal Thermocouple Connectors

E2821-13 Standard Specification for Compacted Mineral-Insulated, Metal-Sheathed Cable Used in Industrial Resistance Thermometers

E2846-14 Standard Guide for Thermocouple Verification

E2847-14 Standard Test Method for Calibration and Accuracy Verification

of Wideband Infrared Thermometers

E2877-12e1 Standard Guide for Digital Contact Thermometers

E2995-15a Standard Specification for ASTM Thermohydrometers with
Integral Low-Hazard Thermometers