



Terminology Relating to Thermometry and Hydrometry¹

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1. Scope

1.1 This terminology is a compilation of definitions of terms used by ASTM Committee E20 on Temperature Measurement.

1.2 Terms with definitions generally applicable to the fields of thermometry and hydrometry are listed in 3.1.

1.3 Terms with definitions applicable only to the indicated standards in which they appear are listed in 3.2.

1.4 Information about the International Temperature Scale of 1990 is given in Appendix X1.

2. Referenced Documents

2.1 *ASTM Standards*:²

- E1 Specification for ASTM Liquid-in-Glass Thermometers
- E77 Test Method for Inspection and Verification of Thermometers
- E100 Specification for ASTM Hydrometers
- E126 Test Method for Inspection, Calibration, and Verification of ASTM Hydrometers
- E207 Test Method for Thermal EMF Test of Single Thermoelement Materials by Comparison with a Reference Thermoelement of Similar EMF-Temperature Properties
- E220 Test Method for Calibration of Thermocouples By Comparison Techniques
- E230 Specification and Temperature-Electromotive Force (EMF) Tables for Standardized Thermocouples
- E452 Test Method for Calibration of Refractory Metal Thermocouples Using a Radiation Thermometer
- E574 Specification for Duplex, Base Metal Thermocouple Wire With Glass Fiber or Silica Fiber Insulation
- E585/E585M Specification for Compacted Mineral-Insulated, Metal-Sheathed, Base Metal Thermocouple Cable
- E601 Guide for Measuring Electromotive Force (emf) Sta-

bility of Base-Metal Thermoelement Materials with Time in Air

- E608/E608M Specification for Mineral-Insulated, Metal-Sheathed Base Metal Thermocouples
- E644 Test Methods for Testing Industrial Resistance Thermometers
- E667 Specification for Mercury-in-Glass, Maximum Self-Registering Clinical Thermometers
- E696 Specification for Tungsten-Rhenium Alloy Thermocouple Wire
- E710 Test Method for Comparing EMF Stabilities of Base-Metal Thermoelements in Air Using Dual, Simultaneous, Thermal-EMF Indicators (Withdrawn 2006)³
- E780 Test Method for Measuring the Insulation Resistance of Mineral-Insulated, Metal-Sheathed Thermocouples and Thermocouple Cable at Room Temperature
- E825 Specification for Phase Change-Type Disposable Fever Thermometer for Intermittent Determination of Human Temperature
- E839 Test Methods for Sheathed Thermocouples and Sheathed Thermocouple Cable
- E879 Specification for Thermistor Sensors for General Purpose and Laboratory Temperature Measurements
- E1061 Specification for Direct-Reading Liquid Crystal Forehead Thermometers
- E1104 Specification for Clinical Thermometer Probe Covers and Sheaths
- E1112 Specification for Electronic Thermometer for Intermittent Determination of Patient Temperature
- E1129/E1129M Specification for Thermocouple Connectors
- E1137/E1137M Specification for Industrial Platinum Resistance Thermometers
- E1159 Specification for Thermocouple Materials, Platinum-Rhodium Alloys, and Platinum
- E1256 Test Methods for Radiation Thermometers (Single Waveband Type)
- E1299 Specification for Reusable Phase-Change-Type Fever Thermometer for Intermittent Determination of Human Temperature
- E1350 Guide for Testing Sheathed Thermocouples, Thermocouples Assemblies, and Connecting Wires Prior to, and

¹ This terminology is under the jurisdiction of ASTM Committee E20 on Temperature Measurement and is the direct responsibility of Subcommittee E20.91 on Editorial and Terminology.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.