



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:

E 1 Specification for ASTM Thermometers²

E 77 Test Method for Inspection and Verification of Thermometers²

E 100 Specification for ASTM Hydrometers²

E 126 Test Method for Inspection and Verification of Hydrometers²

E 207 Test Method for Thermal EMF Test of Single Thermoelement Materials by Comparison with a Reference Thermoelement of Similar EMF-Temperature Properties³

E 220 Test Method for Calibration of Thermocouples by Comparison Techniques²

E 230 Specification and Temperature-Electromotive Force (EMF) Tables for Standardized Thermocouples²

E 452 Test Method for Calibration of Refractory Metal Thermocouples Using a Radiation Thermometer²

E 574 Specification for Duplex, Base Metal Thermocouple Wire with Glass Fiber or Silica Fiber Insulation²

E 585/E 585M Specification for a Radiation Thermometer²

E 601 Test Method for Comparing EMF Stability of Single-Element Base-Metal Thermocouple Materials in Air²

E 608 Specification for Metal-Sheathed Base-Metal Thermocouples²

E 644 Test Methods for Testing Industrial Resistance Thermometers²

E 667 Specification for Maximum Self-Registering Mercury-in-Glass Clinical Thermometers²

E 696 Specification for Tungsten-Rhenium Alloy Thermocouple Wire²

E 710 Test Method for Comparing EMF Stabilities of Base-Metal Thermoelements in Air Using Dual, Simultaneous, Thermal-EMF Indicators²

E 825 Specification for Phase Change-Type Disposable Fever Thermometer for Intermittent Determination of Human Temperature²

E 839 Test Methods for Sheathed Thermocouples and Sheathed Thermocouple Material²

E 879 Specification for Thermistor Sensors for Clinical Laboratory Temperature Measurements²

E 1061 Specification for Direct-Reading Liquid Crystal Forehead Thermometers²

E 1104 Specification for Clinical Thermometer Probe Covers and Sheaths²

E 1112 Specification for Electronic Thermometer for Intermittent Determination of Patient Temperature²

E 1129/E 1129M Specification for Thermocouple Connectors²

E 1137 Specification for Industrial Platinum Resistance Thermometers²

E 1159 Specification for Thermocouple Materials, Platinum-Rhodium Alloys, and Platinum²

E 1256 Test Methods for Radiation Thermometers (Single Waveband Type)²

E 1299 Specification for Reusable Phase-Change-Type Fever Thermometer for Intermittent Determination of Human Temperature²

E 1350 Guide for Testing Sheathed Thermocouples Prior to, During, and After Installation²

E 1502 Guide for Use of Freezing-Point Cells for Reference Temperatures²

E 1594 Guide for Expression of Temperature²

E 1750 Guide for Use of Water Triple Point Cells²

E 1965 Specification for Infrared Thermometers for Intermittent Determination of Patient Temperature²

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 *Annual Book of ASTM Standards*, Vol 14.03.

³ *Annual Book of ASTM Standards*, Vol 06.03.