

**ASTM Standards Permitting Use of Alternative Non-Mercury Thermometers  
As of 04/03/12**

<b>ASTM Standards Permitting Use of Alternative Non-Mercury Thermometers Which in the Past Required Use of Mercury Thermometers*</b>	<b>Subcommittees</b>
D93-09 Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester	D02.08.0B
D130-10 Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test	D02.05.0C
D0445-09 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	D02.07.0A
D740–11 Standard Specification for Methyl Ethyl Ketone	D01.35
D1078-11 Standard Specification for Rubber-Concentrated, Ammonia Preserved, Creamed, and Centrifuged Natural Latex	D01.35
D1200-10 Standard Test Method for Viscosity by Ford Viscosity Cup	D01.24
D1321-10 Standard Test Method for Needle Penetration of Petroleum Waxes	D02.10.0A
D1465-10 Standard Test Method for Blocking and Picking Points of Petroleum Wax	D02.10.0A
D1718-09 Standard Specification for Isobutyl Acetate (95% Grade)	D01.35
D1823-95 (R09) Standard Test Method for Apparent Viscosity of Plastics and Organosols at High Shear Rates by Extrusion Viscometer	D20.15
D2041/D2041M–11 Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	D04.21
D2158-05R11 Standard Test Method for Residues in Liquefied Petroleum (LP) Gases	D02.H0
D2196–10 Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield type) Viscometer	D01.24
D2699-11e1 Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel	D02.01

D2700-11e1 Standard Test Method for Motor Octane Number of Spark-Ignition Engine Fuel	D02.01
D3130-11 Standard Specification for n-Propyl Acetate (96 % Grade)	D01.35
D3195/D3195M-10 Standard Practice for Rotameter Calibration	D22.01
D3539-11 Standard Test Methods for Evaporation Rates of Volatile Liquids by Shell Thin-Film Evaporometer	D01.24
D3828-09 Standard Test Methods for Flash Point by Small Scale Closed Cup Tester	D02.08.0B
D4171-11 Standard Specification for Fuel System Icing Inhibitors	D02.J0.04
D4221-11 Standard Test Method for Dispersive Characteristics of Clay oil by Double Hydrometer	D18.06
D4308-10 Standard Test Method for Electrical Conductivity of Liquid Hydrocarbons by Precision Meter	D02.J0.04
D4310-10 Standard Test Method for Determination of Sludging and Corrosion Tendencies of Inhibited Mineral Oils	D02.09.0C
D4360 -11 Standard Specification for Methyl <i>n</i> -Amyl Ketone	D01.35
D4361-10 Standard Test Method for Apparent Tack of Printing Inks and Vehicles by a Three- Roller Tackmeter	D01.56
D4532-10 Standard Test Method for Respirable Dust in Workplace Atmospheres Using Cyclone Samplers	D22.04
D5006-11 Standard Test Method for Measurement of Fuel System Icing Inhibitors (Ether Type) in Aviation Fuels	D02.J0.04
D5298-10 Standard Test Method for Measurement of Soil Potential (Suction) Using Filter Paper	D18.04
D5865-10 Standard Test Method for Gross Calorific Value of Coal and Coke	D05.21
D6493-11 Standard Test Methods for Softening Point of Hydrocarbon Resins and Rosin Based Resins by Automated Ring-and-Ball Apparatus	D01.38
D6922-11 Standard Test Method for Determination of Homogeneity and Miscibility in Automotive Engine Oils	D02.B0.00
D7098-08e1 Standard Test Method for Oxidation Stability of Lubricants by Thin-Film Oxygen Uptake (TFOUT) Catalyst B	D02.09.0G

D7226-11 Standard Test Method for Determining the Viscosity of Emulsified Asphalts Using a Rotational Paddle Viscometer	D04.42
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<b>Standards Permitting Alternatives but Requires a Mercury Thermometer on Disputed Tests</b>	<b>Subcommittee</b>
D86–11b Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure	
D1747-09 Standard Test Method for Refractive Index of Viscous Materials	D02.04.0D

<b>Standards Require Use of a Mercury Thermometer Which Have Been Withdrawn</b>	<b>Subcommittee</b>
D0301-95(04) Standard Test Methods for Soluble Cellulose Nitrate (Withdrawn 2011)	D01.36
D3269-96(2001)e1 Standard Test Methods for Analysis for Fluoride Content of the Atmosphere and Plant Tissues (Manual Procedures)	D22.03
D6847-02 Standard Test Method for Quantitative Extraction and Recovery of Asphalt Binder from Asphalt Mixtures	D04.25

**\*This is a list of updated ASTM Standards developed through an ongoing cooperative program of reviewing and editing ASTM Standards to phase out the use of mercury thermometers. Participants include ASTM, the Environmental Protection Agency (EPA), the National Institute of Standards and Technology (NIST) and state coalition organizations.**