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Helping our world work better

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ASTM International Technical Committee D09 on Electrical and Electronic Insulating Materials

Scope

The development of test methods, practices, definitions, and specifications and the promotion of knowledge and research relating to solid and solidifying fluid electrical insulating materials.

The principal materials included are grades designed primarily for electrical insulating or dielectric purposes of the following: varnishes and resins; reinforced, laminated, filled and unfilled thermoplastic and thermosetting plastics; metal-clad dielectrics; ceramics, glass, and mica; embedment resins, compounds, and waxes; coated, extruded, cast, and calendared sheet, tape, and tubing; organic and inorganic papers, coated and uncoated; plastic, resin, paper, fiber, thermoset, rubber and ceramic insulation for wire; thermoplastic and thermosetting insulation, jacket, and semi-conducting materials for insulated wire and cable.

Within the scope are standards for the evaluation of all electrical, mechanical, chemical, and thermal properties needed to define these materials, either alone or in simple combinations representative of the way these materials are combined in use; and of the effects upon the properties of these materials, or combinations, of operating environments including the presence of heat, thermal shock, vibration, outer space conditions, and ionizing radiation.

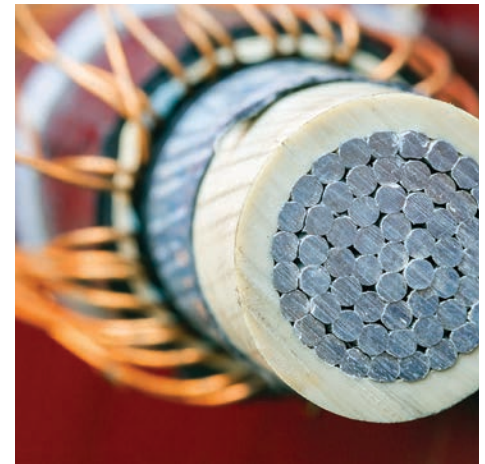
Electrical Test Methods may include procedures for measurement at direct voltage and at all frequencies, including optical frequencies.

Standards for Insulated Conductors, including Fiber Optics, are within the scope insofar as these standards evaluate properties of the electrical insulation and jacket materials.

This scope does not include materials that are fluid in normal use except of their use as controlled ambients or impregnants for testing purposes.

Work in overlapping areas will be coordinated with other interested committees.

Learn more about Committee D09
www.astm.org/COMMIT/D09



Quick Facts

Established 1909

Number of Members 90+

Number of Standards 150

The standards are available in

Volumes 10.01 and 10.02 in the

Annual Book of ASTM Standards

Meetings D09 meets once each

year in April

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Technical Subcommittees

- D09.01 Electrical Insulating Products
- D09.07 Electrical Insulating Materials
- D09.12 Electrical Tests
- D09.15 US TAG FOR IEC/TC 15 & TC 89
- D09.17 Fire and Thermal Properties
- D09.90 Executive
- D09.92 Awards
- D09.94 Editorial

Key Documents

- D149 Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies
- D150 Standard Test Methods for AC Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulation
- D257 Standard Test Methods for DC Resistance or Conductance of Insulating Materials
- D1676 Standard Test Methods for Film-Insulated Magnet Wire
- D5470 Standard Test Method for Thermal Transmission Properties of Thermally Conductive Electrical Insulation Materials