



ASTM International Technical Committee D27 on Electrical Insulating Liquids and Gases

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Committee D27 Webpage:

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Established: 1959

Number of Members: 110+

Number of Standards: 50+

Global Participation: 11 Countries represented

The standards are available in: *Volume 10.03 in the Annual Book of ASTM Standards*

Meetings: D27 meets twice each year, in May and November

SCOPE:

The promotion of knowledge pertaining to electrical insulating liquids and gases, whether of synthetic or natural origin, and the recommendation of standards pertinent to these materials. The principal materials included in this scope are oils of petroleum origin, synthetic liquids, halogenated and other gases, when used, singularly or as combinations, as electrical insulation or as an environment for electrical insulation. Standards peculiar to solid insulating materials and varnishes and the development of standards pertaining to the nonelectrical uses of liquid and gaseous materials are excluded from the scope of Committee D27. Development in these fields incidental to the normal work of Committee D27 will be coordinated with the appropriate technical committees of the Society.

SUBCOMMITTEES:

D27.01 Mineral

D27.02 Gases and Non-Mineral Oil Liquids

D27.03 Analytical Tests

D27.05 Electrical Test

D27.06 Chemical Test

D27.07 Physical Test

D27.15 Planning Resource and Development

D27.90 Executive

D27.91 I.E.C. TC 10 and Advisory

D27.95 Awards, Special Events, and Bylaws

KEY DOCUMENTS:

- D971 Standard Test Method for Interfacial Tension of Oil Against Water by the Ring Method
- D1533 Standard Test Method for Water in Insulating Liquids by Coulometric Karl Fischer Titration
- D1816 Standard Test Method for Dielectric Breakdown Voltage of Insulating Oils of Petroleum Origin Using VDE Electrodes
- D3487 Standard Specification for Mineral Insulating Oil Used in Electrical Apparatus

