

J O I N

ASTM

COMMITTEE
D27 *on Electrical*
Insulating
Liquids
& *Gases*

PARTICIPATE IN DEVELOPING STANDARDS FOR:

Gases & Synthetic Liquids

Mineral Oils

Analytical Tests

Nomenclature & Definitions

Electrical Tests

Chemical Tests

Physical Tests

IEC TC 10 & Advisory

Standards for Materials, Products, Systems and Services and the Promotion of Related Knowledge



INVITATION FROM THE CHAIRMAN

ASTM Committee D27 on Electrical Insulating Liquids and Gases was established in 1959. Its scope includes 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.

Our members are scientists and engineers from the refining and electrical equipment manufacturing industries, as well as users of these products and the laboratories engaged in testing them.

Our members work together to develop specifications, guides, and test methods which are reviewed on a regular basis. Extra-high-voltage equipment with their closer spacings have become increasingly dependent upon high-quality insulating and heat transfer fluids. Become a part of this exciting field. Join D-27 and participate in this important standards development work.

C. Clair Clairborne
Chairman, ASTM Committee D27

WHAT IS ASTM COMMITTEE D27?

D27 is a working organization of more than 100 individuals from electric utilities, electrical equipment manufacturers, producers of electrical insulating fluids (oils, gases, and synthetics), instrument manufacturers, and other interested parties. The committee meets twice a year to develop standards, sponsor technical symposia, and exchange information on every aspect of electrical insulating fluids. The work is coordinated with other ASTM technical committees and similar groups in the U.S. and around the world.

WHY JOIN?

As an active member of D27 you will:

- Influence the development of high-quality, state-of-the-art test methods for insulating fluids
- Interact with the most knowledgeable people in the field of protecting high-voltage electrical equipment
- Have immediate access to proposed revisions to existing standards and drafts of standards under development
- Learn the proper format for reporting and comparing test results
- Become involved in round-robin testing and understand how this procedure involves test methods

COMMITTEE STRUCTURE

Main Committee D27's technical subcommittees, descriptions of their activities, and their chairpersons are given below.

D27.01 - Mineral Oils

This subcommittee writes specifications for electrical insulating oils of petroleum origin, studies the problems associated with this insulating medium, and refers test procedure requirements to the appropriate methods subcommittee.

*Jimmy Rasco,
Ergon Refining Inc.,
Vicksburg, MS
601/630-8314*

D27.02 - Gases &

Non-Mineral Oil Liquids

This subcommittee is similar to D27.01, but addresses insulating fluids other than mineral oil, such as askarels, polybutenes, sulfur hexafluoride, air, etc.

*Scott D. Reed, EPS
Wheeling, VA
Phone: 304/280-0017*

D27.03 - Analytical Tests

This subcommittee writes test methods and practices that primarily use physical means to determine composition or properties of electrical insulating liquids and gases. This includes all analytical test methods which are not specifically physical, chemical, or electrical tests.

*Marc Cyr, Morgan Schaffer,
LaSalle, PQ, CA,
514/739-1967*

D27.05 - Electrical Tests

This subcommittee writes, updates, and performs round-robin evaluations of test methods of an electrical nature. The need for these methods is generally determined by the material subcommittees — D27.01 & D27.02.

*Janet Lloyd, United Power
Service Inc., Nashville, TN,
615/255-3700*

D27.06 - Chemical Tests

This subcommittee is similar to D27.05 for the writing of test methods of a chemical nature.

*Lance Lewand
Doble Engineering Co.
Watertown, MA
617/393-2981*

D27.07 - Physical Tests

Similar to D27.05 and D27.06, this subcommittee writes test methods of a physical nature.

*Randy Stebbins
SD Myers Inc.
Tallmadge, OH
330/630-7000*

D27.15 on Planning, Resources, and Development

This subcommittee provides direction to the Committee and Subcommittees in the areas of proper use of terminology, context of terminology, preparation of precision and bias statements, and definitions used in Committee publications. This subcommittee also prepares and organizes sessions for each of the Committee meetings that will enhance the members understanding of topics related to Committee work in addition to staying abreast of industry and technological developments and advising the Chairman and Executive. Subcommittee of changes or additions to committee documents deemed appropriate.

*Stephen Cuppet
Ameren UE
St. Louis, MO
Phone: 314/554-2437*

D27.91 - IEC TC 10 and Advisory

The function of this subcommittee is to serve as an advisory group on international standards relating to insulating liquids and gases. The group is chaired by a technical advisor nominated by the Chairman of D-27 with concurrence of the executive subcommittee and approval of the U. S. National Committee. The subchairman receives all documents circulated by the International Electrotechnical Commission (IEC) Technical Committee 10 on Fluids for Electrotechnical Applications for comment or approval, and selects various representatives from D-27 for a Technical Advisory Group (TAG) to recommend the U. S. position.

*Randy Stebbins,
SD Myers Inc.,
Tallmadge, OH,
330/633-7640*

D-27.95 on Awards, Special Events, and Bylaws & Regulations

This subcommittee recommends awards, special events, and other activities to the Chairman and the Executive subcommittee, reviews and prepares revisions of the Bylaws as necessary and recommends to the Chairman and Executive Subcommittee any awards, special events, or other activities that are in the interest of the members.

*Joseph J. Kelly
SD Meyers Inc.
Akron, OH
Phone: 330/630-7000*

For information on activities for each subcommittee and its task groups, contact the subcommittee chairman listed after each committee.

Membership in ASTM is not required to participate in task group activities; many task groups seek non-members to provide expertise in a given area.

SAMPLE STANDARDS:

Committee D27 has published 61 standards that appear in Volume 10.03 of the Annual Book of ASTM Standards. They include:

D 1816—Standard Test Method for Dielectric Breakdown Voltage of Insulating Oils of Petroleum Origin Using VDE Electrodes

D 3612—Standard Test Method for Analysis of Gases Dissolved in Electrical Insulating Oil by Gas Chromatography

D 3487—Standard Specification for Mineral Insulating Oil Used in Electrical Apparatus

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