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Standard Terminology Relating to Electrical Insulating Liquids and Gases¹

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INTRODUCTION

The definitions contained in this terminology pertain to terms as they are used in conjunction with fluid insulating materials. Insofar as possible, the definitions are consistent with accepted general usage, and may also contain additional information deemed to be of value in testing of fluid insulating materials.

1. Referenced Documents

1.1 ASTM Standards:²

- D611** Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents
- D2007** Test Method for Characteristic Groups in Rubber Extender and Processing Oils and Other Petroleum-Derived Oils by the Clay-Gel Absorption Chromatographic Method
- D2140** Practice for Calculating Carbon-Type Composition of Insulating Oils of Petroleum Origin
- D2300** Test Method for Gassing of Electrical Insulating Liquids Under Electrical Stress and Ionization (Modified Pirrelli Method)
- D2500** Test Method for Cloud Point of Petroleum Products and Liquid Fuels
- D3117** Test Method for Wax Appearance Point of Distillate Fuels (Withdrawn 2010)³
- E355** Practice for Gas Chromatography Terms and Relationships

2. Terminology

ac, n —symbol used to designate an electric voltage or current whose amplitude varies periodically as a function of time, its average value over one complete period being zero. One complete repetition of the wave pattern is referred to as a **CYCLE**, and the number of cycles occurring in one second is called the **FREQUENCY**, measured in hertz (Hz). For example, the electricity supplied by commercial utility companies in the United States is, in most localities, 60 Hz, although other frequencies may be encountered.

acid treating, n —a refining process in which an unfinished petroleum insulating oil is contacted with sulfuric acid to improve its color, odor, stability, and other properties.

ac loss characteristics, n —those properties of a dielectric or insulation system (such as dissipation factor, power factor, and loss index) that may be used as a measure of the power or energy losses that would result from the use of such material in an ac electric field.

¹ This terminology is under the jurisdiction of ASTM Committee **D07** on Electrical Insulating Liquids and Gases and is the direct responsibility of Subcommittee **D07.15** on Planning, Research, and Development.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

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