



Designation: **D117—10 D117 - 18**

Standard Guide for Sampling, Test Methods, and Specifications for Electrical Insulating Oils of Petroleum-Origin Liquids¹

This standard is issued under the fixed designation D117; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide describes methods of testing and specifications for electrical insulating oils of petroleum-origin liquids intended for use in electrical cables, transformers, oil-filled circuit breakers, and other electrical apparatus where the oils/liquids are used as insulating, or heat transfer media, or both.

1.2 The purpose of this guide is to outline the applicability of the available test methods. Where more than one is available for measuring a given property, their relative advantages are described, along with an indication of laboratory convenience, precision, (95 % confidence limits), and applicability to specific types of electrical insulating oils.

1.3 This guide is classified into the following categories: Sampling Practices, Physical Tests, Electrical Tests, Chemical Tests, and Specifications. Within each test category, the test methods are listed alphabetically by property measured. A list of standards follows:

Category	Section	ASTM Method/Standard
Sampling	—4	D4058—D4066—D4068
Sampling	—5	D902
Physical Tests:		
Aniline Point	4	D611
Coefficient of Thermal Expansion	5	D1903
Color	6	D1500
Examination, Visual Infrared	7	D1524, D2144, D2129
Flash and Fire Point	8	D92
Interfacial Tension	9	D474, D2268
Pour Point of Petroleum Products	10	D97, D2243, D2250
Particle Count in Mineral Insulating Oil	11	D2798
Refractive Index and Specific Optical Dispersion	12	D1248, D1827
Relative Density (Specific Gravity)	13	D93, D1217, D1268, D1481, D4052
Specific Heat	14	D1798
Thermal Conductivity	15	D2717
Turbidity	16	D6189
Viscosity	17	D445, D446, D448
Viscosity	17	D445, D2192
Electrical Tests:		
Dielectric Breakdown Voltage	18	D877, D1836, D3000
Dissipation Factor and Relative Permittivity (Dielectric Constant)	19	D924
Gassing Characteristics:		
Under Thermal Stress	20	D1168
Gassing Tendency	21	D2308
Resisting	22	D1588
Stability Under Electrical Discharge	23	D6180
Chemical Tests:		
Acidity, Approximate	24	D1524

¹ This guide is under the jurisdiction of ASTM Committee E07 on Electrical Insulating Liquids and Gases and is the direct responsibility of Subcommittee E07.01 on Mineral.

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Rosina Ehmann



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Electrical Power Equipment Maintenance and Testing Paul Gill,2016-12-19 The second edition of a bestseller this definitive text covers all aspects of testing and maintenance of the equipment found in electrical power systems serving industrial commercial utility substations and generating plants It addresses practical aspects of routing testing and maintenance and presents both the methodologies and engineering basics needed to carry out these tasks It is an essential reference for engineers and technicians responsible for the operation maintenance and testing of power system equipment Comprehensive coverage includes dielectric theory dissolved gas analysis cable fault locating ground resistance measurements and power factor dissipation factor DC breaker and relay testing methods Index of Specifications and Standards ,2005 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 *Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005* ,

IEEE Guide for Diagnostic Field Testing of Electric Power Apparatus-- Institute of Electrical and Electronics Engineers,1995 Diagnostic tests and measurements that are performed in the field on oil immersed power transformers and regulators are described Whenever possible shunt reactors are treated in a similar manner to transformers Tests are presented systematically in categories depending on the subsystem of the unit being examined A diagnostic chart is included as an aid to identify the various sybsystems Additional information is provided regarding specialized test and measureing techniques *Annual Book of ASTM Standards* American Society for Testing and Materials,1990 Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III July 2005 , **Standardization News** American Society for Testing and Materials,2002 ASA Standard American Standards Association,1955 *Industrial Standardization* ,1959 **The Magazine of Standards** ,1958 *Magazine of Standards* ,1963 **Index and Directory of U.S. Industry Standards** ,1987 *Book of ASTM Standards Including Tentatives* American Society for Testing and Materials,1962 Book of ASTM Standards American Society for Testing and Materials,1969 *Miscellaneous ASTM Standards for Petroleum Products* ASTM Committee D-2 on Petroleum Products and Lubricants,1968 **Book of A.S.T.M. Standards, with Related Material** American Society for Testing and Materials,1968 **1949 Book of ASTM Standards Including Tentatives (a Triennial Publication)**. American Society for Testing and Materials,1949 *Industrial Standardization and Commercial Standards Monthly* ,1942 **Catalog of American National Standards** American Standards Association,1963

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