



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, D4076a, D4086
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, D2266
Pour Point of Petroleum Products	10	D97, D2243, D2600
Particle Count in Mineral Insulating Oil	11	D6786
Refractive Index and Specific Optical Dispersion	12	D1248, D1807
Relative Density (Specific Gravity)	13	D93, D1217, D1266, D1461, D4052, D7766
Specific Heat	14	D7766
Thermal Conductivity	15	D2717
Turbidity	16	D6189
Viscosity	17	D445, D446, D446A
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	D7166
Gassing Tendency	21	D2306
Resisting	22	D1586
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 Dielectric in the direct responsibility of Subcommittee E07.01 on Mineral.

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