



Designation: D117 – 10

Standard Guide for Sampling, Test Methods, and Specifications for Electrical Insulating Oils of Petroleum Origin¹

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1. Scope

1.1 This guide describes methods of testing and specifications for electrical insulating oils of petroleum origin intended for use in electrical cables, transformers, oil circuit breakers, and other electrical apparatus where the oils 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
Sampling:	3	D493, D2759, D3365
Physical Tests:		
Acidic Point	4	D611
Coefficient of Thermal Expansion	5	D1903
Color	6	D4500
Examination: Visual Infrared	7	D4524, D2144
Flash and Fire Point	8	D92
Infectious Tension	9	D474, D2066
Pour Point of Petroleum Products	10	D47
Particle Count in Mineral Insulating Oil	11	D4790
Refractive Index	12	D1258, D1907
Relative Density (Specific Gravity)	13	D287, D1217, D1298, D1481

Category	Section	ASTM Method
Specific Heat	14	D2768
Thermal Conductivity	15	D2717
Turbidity	16	D2181
Viscosity	17	D98, D445, D2161
Electrical Tests:		
Dielectric Breakdown Voltage	18	D607, D1816, D3300
Dissipation Factor and Relative Permittivity (Dielectric Constant)	19	D924
Gassing Characteristics Under Thermal Stress	20	D1150
Gassing Tendency	21	D2305
Reactivity	22	D1169
Stability Under Electrical Discharge	23	D6180
Chemical Tests:		
Acidity: Approximate	24	D1534
Carbon Type Composition	25	D2140
Compatibility with Construction Material	26	D3455
Copper Content	27	D3635
Elements by Inductively Coupled Plasma (ICP-AES)	28	D1751
Fluoric Compounds in Electrical Insulating Liquids	29	D5847
Gas Analysis	30	D3612
Gas Content	31	D631, D1827, D2945
Inorganic Chlorides and Sulfates	32	D878
Neutralization (Acid and Base) Numbers	33	D654, D974
Oxidation Inhibitor Content	34	D2666, D4766
Oxidation Stability	35	D1934, D2112, D2440
Polychlorinated Biphenyl Content	36	D4058
Relative Content of Dissolved Dewey	37	D6882
Sediment and Soluble Sludge	38	D1688
Sulfur, Corrosive	39	D1275
Water Content	40	D1523
Specifications:		
Mineral Insulating Oil for Electrical Apparatus	41	D2487
High Firepoint Electrical Insulating Oils	42	D6222

1.4 The values stated in SI units are to be regarded as standard. The values stated in parentheses are provided for information only.

¹ This guide is under the jurisdiction of ASTM Committee D27 on Electrical Insulating Liquids and Classified in the direct responsibility of Subcommittee D27.01 on Mineral.

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