



Designation: D117 – 10

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

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 approval. A superscript symbol (°) indicates an editorial change since the last revision or approval.

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	D1524, D2144
Flash and Fire Point	8	D93
Interfacial Tension	9	D471, D3399
Pour Point of Petroleum Products	10	D447
Particle Count in Mineral Insulating Oil	11	D4796
Refractive Index	12	D1535, D1907
Relative Density (Specific Gravity)	13	D287, D1217, D1298, D1481

¹ This guide is under the jurisdiction of ASTM Committee D27 on Electrical Insulating Liquids and Equipment and is the direct responsibility of Subcommittee D27.06 on Mineral.

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Category	Section	ASTM Method
Specific Heat	14	D2766
Thermal Conductivity	15	D2717
Turbidity	16	D6183
Viscosity	17	D68, 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	D7156
Gassing Tendency	21	D2366
Moisture	22	D1169
Stability Under Electrical Discharge	23	D6186
Chemical Tests:		
Acidity: Approximate	24	D1534
Carbon Type Composition	25	D2140
Compatibility with Construction Material	26	D3456
Copper Content	27	D3636
Elements by Inductively Coupled Plasma (ICP-AES)	28	D7151
Furanic Compounds in Electrical Insulating Liquids	29	D5827
Gas Analysis	30	D3612
Gas Content	31	D521, D1827, D2945
Inorganic Chlorides and Sulfates	32	D678
Neutralization (Acid and Base) Numbers	33	D664, D974
Oxidation Inhibitor Content	34	D2666, D4769
Oxidation Stability	35	D1934, D2112, D2440
Polychlorinated Biphenyl Content	36	D4059
Relative Content of Dissolved Decay	37	D6802
Sediment and Soluble Sludge	38	D1698
Sulfur, Corrosive	39	D1275
Water Content	40	D1533
Specifications:		
Mineral Insulating Oil for Electrical Apparatus	41	D4487
High Firepoint Electrical Insulating Oils	42	D5222

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

Astm D117 10 Standard Guide For Sampling Test Methods

Lingjun Ying



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Table of Contents Astm D117 10 Standard Guide For Sampling Test Methods

1. Understanding the eBook Astm D117 10 Standard Guide For Sampling Test Methods
 - The Rise of Digital Reading Astm D117 10 Standard Guide For Sampling Test Methods
 - Advantages of eBooks Over Traditional Books
2. Identifying Astm D117 10 Standard Guide For Sampling Test Methods
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astm D117 10 Standard Guide For Sampling Test Methods
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astm D117 10 Standard Guide For Sampling Test Methods

- Personalized Recommendations
 - Astm D117 10 Standard Guide For Sampling Test Methods User Reviews and Ratings
 - Astm D117 10 Standard Guide For Sampling Test Methods and Bestseller Lists
5. Accessing Astm D117 10 Standard Guide For Sampling Test Methods Free and Paid eBooks
 - Astm D117 10 Standard Guide For Sampling Test Methods Public Domain eBooks
 - Astm D117 10 Standard Guide For Sampling Test Methods eBook Subscription Services
 - Astm D117 10 Standard Guide For Sampling Test Methods Budget-Friendly Options
 6. Navigating Astm D117 10 Standard Guide For Sampling Test Methods eBook Formats
 - ePub, PDF, MOBI, and More
 - Astm D117 10 Standard Guide For Sampling Test Methods Compatibility with Devices
 - Astm D117 10 Standard Guide For Sampling Test Methods Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm D117 10 Standard Guide For Sampling Test Methods
 - Highlighting and Note-Taking Astm D117 10 Standard Guide For Sampling Test Methods
 - Interactive Elements Astm D117 10 Standard Guide For Sampling Test Methods
 8. Staying Engaged with Astm D117 10 Standard Guide For Sampling Test Methods
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm D117 10 Standard Guide For Sampling Test Methods
 9. Balancing eBooks and Physical Books Astm D117 10 Standard Guide For Sampling Test Methods
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm D117 10 Standard Guide For Sampling Test Methods
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Astm D117 10 Standard Guide For Sampling Test Methods
 - Setting Reading Goals Astm D117 10 Standard Guide For Sampling Test Methods
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Astm D117 10 Standard Guide For Sampling Test Methods

- Fact-Checking eBook Content of Astm D117 10 Standard Guide For Sampling Test Methods
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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