

| Type of Liquid   | Mineral Oil      | Natural Ester    | Natural Ester with Reduced Viscosity | Synthetic Ester  |
|--|------------------|------------------|--------------------------------------|------------------|
| Electrical properties  |                  |                  |                                      |                  |
| Breakdown voltage $U_b$ [kV]   | 68               | 75               | 75                                   | 75               |
| Electrical resistivity [ $\Omega \cdot m$ ]                          | $10^8 + 10^{14}$ | $10^8 + 10^{12}$ | $10^{10} + 10^{11}$                  | $10^8 + 10^{12}$ |
| $\tan(\delta)$   | <0.0020          | 0.0050           | 0.0400                               | 0.0006           |
| Electrical permittivity $\epsilon$                                   | 2.26             | 3.20             | 2.82                                 | 3.20             |
| Thermal properties   |                  |                  |                                      |                  |
| Specific heat $c_p$ [ $J \cdot kg^{-1} \cdot K^{-1}$ ]               | 2077             | 2166             | 1990                                 | 2052             |
| Thermal conductivity $\lambda$ [ $W \cdot m^{-1} \cdot K^{-1}$ ]     | 0.128            | 0.178            | 0.188                                | 0.153            |
| Viscosity $\nu$ [ $mm^2 \cdot s^{-1}$ ]                              | 5.4              | 18.3             | 10.0                                 | 14.0             |
| Density $\rho$ [ $kg \cdot m^{-3}$ ]                                 | 845              | 892              | 863                                  | 940              |
| Thermal expansion $\beta$ [ $K^{-1}$ ]                               | 0.00078          | 0.00078          | 0.00078                              | 0.00078          |
| Heat transfer coefficient $\alpha$ [ $W \cdot m^{-2} \cdot K^{-1}$ ] | 134.67           | 118.85           | 123.12                               | 112.99           |

# Electrical Insulating Liquids

**CH Cherryholmes**



## **Electrical Insulating Liquids:**

*Electrical Insulating Liquids* R. Bartnikas, 1994     **ASTM Standards on Electrical Insulating Liquids and Gases, with Related Information** ASTM Committee D-27 on Electrical Insulating Liquids and Gases, 1962     *Electrical Insulating Oils* Herbert G. Erdman, 1988 Contains papers presented at the symposium of the same name held in Bal Harbour Fla Oct 87 A useful review Annotation copyright Book News Inc Portland Or     *ASTM Standards on Electrical Insulating Liquids and Gases* American Society for Testing Materials. Committee D-27 on Electrical Insulating Liquids and Gases, 1960     Electrical Insulating Liquids and Gases American Society for Testing & Materials, 2001-05-01     *Insulating Liquids* A. C. M. Wilson, 1980 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine     **Electrical Insulating Liquids and Gases, Electrical Protective Equipment** , 1993     Electrical Breakdown of Insulating Liquids J. A. Kok, 1961     Biological Insulating Liquids Ernst Peter Pagger, Norasage Pattanadech, Frank Uhlig, Michael Muhr, 2023-03-01 This book describes the state of the art use of biological insulating liquids in detail In recent years more and more transformers filled with esters have been put into operation This is because people recognize the benefits of ester liquids in terms of their fire safety high flash and fire points and environmental characteristics judging from their biodegradability their low CO2 footprint only valid for natural ester and their beneficial interactions with solid insulation etc One of the main reasons is that the water adsorption and absorption characteristics of these liquids are excellent and very different compared to mineral oil The today s discussion about climate change and global warming is an additional driver for using natural ester Another advantage is that transformers filled with biological insulating liquids can operate with an overload of up to 150% This is advantageous in the case of volatile energy generation from wind and solar power and in the supply of electrical energy for electromobility Liquid inside electrical equipment is the lifeblood that serves both as a dielectric and a cooling medium Some properties of these liquids differ from mineral oil which had to be considered in the transformer design The dielectric liquid is always in direct contact with transformer materials therefore the interaction should be very well understood especially when refilling an existing mineral oil filled device There are several natural ester fluids derived from various seeds and fruits on the market and their properties may differ more or less In the book the most important properties of the different biological insulating fluids and mineral oil are compared Ester fluids have already found their way into various standards The condition of the device can be verified very well from the contents of the insulating liquids For analysis and testing the same equipment and devices that are commonly used for mineral oil are used for ester liquid The chemical and physical behaviors of ester fluids compared to mineral oil are different This must always be considered when interpreting test results stemming from ester fluids The book is a guideline for students original equipment manufacturers users laboratories and authorities in the use of biological insulating liquids     **The Use and Disposal of Electrical Insulating Liquids** National Industrial Pollution Control

Council,1971      **Alternative Liquid Dielectrics for High Voltage Transformer Insulation Systems** U. Mohan Rao,Issouf Fofana,Ramanujam Sarathi,2021-12-01 A comprehensive reference and guide on the usage of the alternative dielectric fluids for transformer insulation systems Liquid filled transformers are one of the most important and expensive components involved in the transmission and distribution of power to industrial and domestic loads Although petroleum based insulating oils have been used in transformers for decades recent environmental concerns health and safety considerations and various technical factors have increased the need for new alternative and biodegradable liquids Alternative Liquid Dielectrics for High Voltage Transformer Insulation Systems is an up to date reference and guide on natural and synthetic ester based biodegradable insulating liquids Covering the operational behavior performance analysis and maintenance of transformers filled with biodegradable insulating liquids this comprehensive resource helps researchers and utility engineers expand their knowledge of the benefits challenges and application of ester filled transformers In depth chapters written by experienced researchers addresses critical topics including transformer condition monitoring high voltage insulation testing biodegradable insulating material processing and evaluation and more A unique and significant contribution to existing literature on the subject this authoritative volume Covers condition monitoring diagnostic testing applications maintenance and in service experiences Explores current challenges and future prospects of ester filled transformers Discusses significant research progress and identifies the topics in need of further emphasis Compares the differences and similarities between mineral oils and ester liquids Includes in depth behavioral observations and performance analysis of ester based insulating liquids Alternative Liquid Dielectrics for High Voltage Transformer Insulation Systems Performance Analysis and Applications is a must have reference for utility engineers electrical power utilities transformer owners manufacturers and researchers

**Annual Book of Astm Standards, 1997** American Society for Testing and Materials,1997-06-01      **Electrical Insulating Materials** M. M. Hirschler,2000 Annotation Contains papers presented at the March 1999 symposium held in Seattle Washington with sections on standards electrical insulating fluids electrical tests and fire issues Specific topics include fire hazard testing in the International Electrotechnical Commission Standards specification issues associated with the development of an agriculturally based biodegradable dielectric fluid electrochemical stability of mineral insulating oils standardized testing procedures and developments in partial discharge measurement and comparative tracking index of flame retardant nylon and PBT The editor is affiliated with GBH International Annotation copyrighted by Book News Inc Portland OR      *Electrical Insulating Liquids and Gases; Electrical Protective Equipment* ,2002-06-01      **High Voltage Insulating Materials-Current State and Prospects** Pawel Rozga,2021-09-07 Studies on new solutions in the field of high voltage insulating materials are presented in this book Most of these works concern liquid insulation especially biodegradable ester fluids however in a few cases gaseous and solid insulation are also considered Both fundamental research as well as research related to industrial applications are described

In addition experimental techniques aimed at possibly finding new ways of analysing the experimental data are proposed to test dielectrics

**Electrical Insulation** W. S. Flight,1923      **Electrical Insulating Materials-Specifications** American Society for Testing & Materials,1975-07-01      *Engineering Dielectrics* ,1994      **Use and Disposal of Electrical Insulating Liquids** U.S. National Industrial Pollution Control Council,1971      *Standard practices for sampling electrical insulating liquids* ,2007

The book delves into Electrical Insulating Liquids. Electrical Insulating Liquids is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Electrical Insulating Liquids, encompassing both the fundamentals and more intricate discussions.

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6. In chapter 5, the author will draw a conclusion about Electrical Insulating Liquids. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Electrical Insulating Liquids.

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