

## PROPERTY VALUES OF TRANSFORMER OIL (STANDARD 982—68)

| Temp.<br>$t$<br>°C | Density<br>$\rho$<br>kg/m <sup>3</sup> | Kinematic<br>Viscosity<br>$\nu$<br>m <sup>2</sup> /s | Thermal<br>Diffusivity<br>$\alpha$<br>m <sup>2</sup> /s | Prandtl<br>Number<br>$Pr$ | Specific<br>Heat<br>$c$<br>J/kgK | Thermal<br>Conductivity<br>$k$<br>W/mK | Absolute<br>Viscosity<br>$\mu$<br>N s/m <sup>2</sup> |
|--------------------|----------------------------------------|------------------------------------------------------|---------------------------------------------------------|---------------------------|----------------------------------|----------------------------------------|------------------------------------------------------|
| -50                | 922                                    | $31,800 \times 10^{-6}$                              | $74.2 \times 10^{-6}$                                   | $42860 \times 10^{-3}$    | 1700                             | 0.116                                  | $29,320 \times 10^{-3}$                              |
| -40                | 916                                    | $4,220 \times 10^{-6}$                               | $75.0 \times 10^{-6}$                                   | $5630 \times 10^{-3}$     | 1680                             | 0.116                                  | $3,866 \times 10^{-3}$                               |
| -30                | 910                                    | $1,300 \times 10^{-6}$                               | $76.4 \times 10^{-6}$                                   | $1700 \times 10^{-3}$     | 1650                             | 0.115                                  | $1,183 \times 10^{-3}$                               |
| -20                | 904                                    | $404 \times 10^{-6}$                                 | $77.8 \times 10^{-6}$                                   | $520 \times 10^{-3}$      | 1620                             | 0.114                                  | $365.6 \times 10^{-3}$                               |
| -10                | 898                                    | $120 \times 10^{-6}$                                 | $78.8 \times 10^{-6}$                                   | $153 \times 10^{-3}$      | 2788                             | 0.113                                  | $108.1 \times 10^{-3}$                               |
| 0                  | 891                                    | $67.5 \times 10^{-6}$                                | $77.8 \times 10^{-6}$                                   | $86.7 \times 10^{-3}$     | 2813                             | 0.112                                  | $55.24 \times 10^{-3}$                               |
| 10                 | 885                                    | $37.8 \times 10^{-6}$                                | $76.3 \times 10^{-6}$                                   | $49.5 \times 10^{-3}$     | 2839                             | 0.111                                  | $33.45 \times 10^{-3}$                               |
| 20                 | 879                                    | $24.0 \times 10^{-6}$                                | $73.6 \times 10^{-6}$                                   | $32.6 \times 10^{-3}$     | 2868                             | 0.111                                  | $21.10 \times 10^{-3}$                               |
| 30                 | 873                                    | $15.4 \times 10^{-6}$                                | $70.7 \times 10^{-6}$                                   | $21.8 \times 10^{-3}$     | 2382                             | 0.110                                  | $13.44 \times 10^{-3}$                               |
| 40                 | 867                                    | $10.8 \times 10^{-6}$                                | $68.8 \times 10^{-6}$                                   | $15.7 \times 10^{-3}$     | 2474                             | 0.109                                  | $9.364 \times 10^{-3}$                               |

1 W/mK = 0.86 kcal/m hr °C

1 J/kg K =  $238.9 \times 10^{-3}$  kcal/kg °C

1 Ns/m<sup>2</sup> = 0.102 kgfs/m<sup>2</sup>

## PROPERTY VALUES OF MOBILTHERM 600

| Temp.<br>$t$<br>°C | Density<br>$\rho$<br>kg/m <sup>3</sup> | Coefficient<br>of thermal<br>expansion<br>$\beta$<br>1/K | Kinematic<br>Viscosity<br>$\nu$<br>m <sup>2</sup> /s | Thermal<br>Diffusivity<br>$\alpha$<br>m <sup>2</sup> /s | Prandtl<br>Number<br>$Pr$ | Specific<br>Heat<br>$c$<br>J/kg K | Thermal<br>Conductivity<br>$k$<br>W/mK | Absolute<br>Viscosity<br>$\mu$<br>N s/m <sup>2</sup> |
|--------------------|----------------------------------------|----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|---------------------------|-----------------------------------|----------------------------------------|------------------------------------------------------|
| 10                 | 953                                    | $0.621 \times 10^{-3}$                                   |                                                      | $83.3 \times 10^{-6}$                                   |                           | 1549                              | 0.123                                  |                                                      |
| 50                 | 929                                    | $0.637 \times 10^{-3}$                                   | $32.60 \times 10^{-6}$                               | $76.9 \times 10^{-6}$                                   | 424                       | 1680                              | 0.120                                  | $30.28 \times 10^{-3}$                               |
| 100                | 899                                    | $0.658 \times 10^{-3}$                                   | $6.10 \times 10^{-6}$                                | $69.4 \times 10^{-6}$                                   | 87.9                      | 1859                              | 0.116                                  | $5.48 \times 10^{-3}$                                |
| 150                | 870                                    | $0.680 \times 10^{-3}$                                   | $2.34 \times 10^{-6}$                                | $64.0 \times 10^{-6}$                                   | 36.6                      | 2031                              | 0.113                                  | $2.04 \times 10^{-3}$                                |
| 200                | 839                                    | $0.705 \times 10^{-3}$                                   | $1.25 \times 10^{-6}$                                | $59.4 \times 10^{-6}$                                   | 21.0                      | 2209                              | 0.110                                  | $1.05 \times 10^{-3}$                                |
| 250                | 810                                    | $0.730 \times 10^{-3}$                                   | $0.790 \times 10^{-6}$                               | $54.5 \times 10^{-6}$                                   | 14.5                      | 2386                              | 0.106                                  | $0.64 \times 10^{-3}$                                |

1 W/mK = 0.86 kcal/m hr °C

1 J/kg K =  $238.9 \times 10^{-3}$  kcal/kg °C

1 Ns/m<sup>2</sup> = 0.102 kgfs/m<sup>2</sup>

# Heat And Mass Transfer Data

**C. P. Kothandaraman, S. Subramanyan**



## Heat And Mass Transfer Data :

**Heat and Mass Transfer Data Book** C. P. Kothandaraman, S. Subramanyan, 1977 *Heat and Mass Transfer Data Book* KOTHANDARAMAN, Wiley, 1977-01-01

**Heat and Mass Transfer Data** C. P. Kothandaraman, S. Subramanyan, 1998-12-01

FUNDAMENTALS OF HEAT AND MASS TRANSFER B. K. VENKANNA, 2010-01-01 This comprehensive text on the basics of heat and mass transfer provides a well balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem solving the text is written to meet the needs of undergraduate students in mechanical engineering production engineering industrial engineering auto mobile engineering aeronautical engineering chemical engineering and biotechnology

*Heat and Mass Transfer Data Book* C. P. Kothandaraman, S. Subramanyan, 2010

Convective Heat and Mass Transfer in Porous Media Sadik Kakaç, Birol Kilis, Frank A. Kulacki, Faruk Annç, 2012-12-06 The rapid growth of literature on convective heat and mass transfer through porous media has brought both engineering and fundamental knowledge to a new state of completeness and depth Additionally several new questions of fundamental merit have arisen in several areas which bear direct relation to further advancement of basic knowledge and applications in this field For example the growth of fundamental heat transfer data and correlations for engineering use for saturated media has now reached the point where the relations for heat transfer coefficients and flow parameters are known well enough for design purposes Multiple flow field regimes in natural convection have been identified in several important enclosure geometries New questions have arisen on the nature of equations being used in theoretical studies i e the Validity of Darcy assumption is being brought into question Wall effects in high and low velocity flow fields have been found to play a role in predicting transport coefficients The formulation of transport problems in fractured media are being investigated as both an extension of those in a homogeneous medium and for application in engineering systems in geologic media and problems on saturated media are being addressed to determine their proper formulation and solution The long standing problem of how to adequately formulate and solve problems of multi phase heat and mass transfer in heterogeneous media is important in the technologies of chemical reactor engineering and enhanced oil recovery

**Handbook of Heat and Mass Transfer** Nicholas P. Cheremisinoff, 1986 *Heat and Mass Transfer Data Book*, 2022

Recent Advances in Liquid-Liquid Extraction C. Hanson, 2013-10-22 Recent Advances in Liquid liquid Extraction focuses on the applications of liquid extraction The selection first discusses solvent extraction Concerns include organic and inorganic separations mass transfer process solvent extraction economics and coalescence in liquid liquid systems The book focuses on the chemistry of solvent extraction Extraction by acidic organophosphorus compounds extraction by phosphorus bonded oxygen donor solvents extraction by high molecular weight amines and synergistic

extraction are elaborated The book also focuses on industrial organic processes industrial contacting equipment response characteristics and control of extraction processes and calculation of contactors with longitudinal mixing The selection presents the study of longitudinal mixing in liquid liquid contactors Rotating disc contactors packed columns vibrating plate extractors and Oldshue Rushton columns are described The text also discusses heat transfer by direct liquid liquid contact and the coalescence of liquid droplets and liquid dispersion The selection is a vital source of data for readers interested in liquid extraction

**Heat and Mass Transfer** Hans Dieter Baehr, Karl Stephan, 2006-08-02 This book provides a solid foundation in the principles of heat and mass transfer and shows how to solve problems by applying modern methods The basic theory is developed systematically exploring in detail the solution methods to all important problems The revised second edition incorporates state of the art findings on heat and mass transfer correlations The book will be useful not only to upper and graduate level students but also to practicing scientists and engineers Many worked out examples and numerous exercises with their solutions will facilitate learning and understanding and an appendix includes data on key properties of important substances

**Heat and Mass Transfer Data Book (MKS Units)**, 1970 *Previews of Heat and Mass Transfer*, 1994

*Handbook of Industrial Drying, Fourth Edition* Arun S. Mujumdar, 2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness

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**Heat Transfer** Adrian Bejan, 2022-04-05 HEAT TRANSFER Provides authoritative coverage of the fundamentals of heat transfer written by one of the most cited authors in all of Engineering Heat Transfer presents the fundamentals of the generation use conversion and exchange of heat between physical systems A pioneer in establishing heat transfer as a pillar of the modern thermal sciences Professor Adrian Bejan presents the

fundamental concepts and problem solving methods of the discipline predicts the evolution of heat transfer configurations the principles of thermodynamics and more Building upon his classic 1993 book Heat Transfer the author maintains his straightforward scientific approach to teaching essential developments such as Fourier conduction fins boundary layer theory duct flow scale analysis and the structure of turbulence In this new volume Bejan explores topics and research developments that have emerged during the past decade including the designing of convective flow and heat and mass transfer the crucial relationship between configuration and performance and new populations of configurations such as tapered ducts plates with multi scale features and dendritic fins Heat Transfer Evolution Design and Performance Covers thermodynamics principles and establishes performance and evolution as fundamental concepts in thermal sciences Demonstrates how principles of physics predict a future with economies of scale multi scale design vascularization and hierarchical distribution of many small features Explores new work on conduction architecture convection with nanofluids boiling and condensation on designed surfaces and resonance of natural circulation in enclosures Includes numerous examples problems with solutions and access to a companion website Heat Transfer Evolution Design and Performance is essential reading for undergraduate and graduate students in mechanical and chemical engineering and for all engineers physicists biologists and earth scientists

Heat & Mass Transfer Data Bk - Si Units Domkundwar Vm,2006-01-01      **Electrochemical Systems** John

Newman,Karen E. Thomas-Alyea,2012-11-27 The new edition of the cornerstone text on electrochemistry Spans all the areas of electrochemistry from the basics of thermodynamics and electrode kinetics to transport phenomena in electrolytes metals and semiconductors Newly updated and expanded the Third Edition covers important new treatments ideas and technologies while also increasing the book's accessibility for readers in related fields Rigorous and complete presentation of the fundamental concepts In depth examples applying the concepts to real life design problems Homework problems ranging from the reinforcing to the highly thought provoking Extensive bibliography giving both the historical development of the field and references for the practicing electrochemist      *Heat and Mass Transfer Data Book* A V Domkundwar,V M

Domkundwar,2008      *Variable Refrigerant Flow Systems* Napoleon Enteria,Takao Sawachi,Kiyoshi Saito,2023-01-31 This book compiles the latest research development and application of VRF systems with contributions from various experts who pioneered and contributed to the development of the VRF system This book presents the fundamental issues related to the real application and behaviour of the VRF system based on the long term monitoring of the installed system With our experience of pandemic which COVID 19 is an airborne the spread of the virus is very fast With this the heating ventilating and air conditioning HVAC system is a major player in the maintenance and control of indoor environment to minimize the spread of the virus As the variable refrigerant flow VRF system is a versatile HVAC system in which it can operate at different conditions the application of the VRF system is very important to control the indoor environmental conditions Thus the publication of this book is important with the present situation and the future possible situation which the control of

indoor spaces is very important With this this book will serve as a reference for building designer contractors building regulators and students     **Advances in Heat Transfer** James P. Hartnett,2003-10-09 Advances in Heat Transfer presents review articles on topics of current interest Each contribution starts from widely understood principles and brings the reader up to the forefront of the topic being addressed The favorable response by the international scientific and engineering community to the 37 volumes published to date is an indication of the success of our authors in fulfilling this purpose This is recommended reading for all mechanical engineers and researchers Provides an overview of review articles on topics of current interest Bridges the gap between academic researchers and practitioners in industry A long running and prestigious series

The book delves into Heat And Mass Transfer Data . Heat And Mass Transfer Data is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Heat And Mass Transfer Data , encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Heat And Mass Transfer Data
- Chapter 2: Essential Elements of Heat And Mass Transfer Data
- Chapter 3: Heat And Mass Transfer Data in Everyday Life
- Chapter 4: Heat And Mass Transfer Data in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Heat And Mass Transfer Data . The first chapter will explore what Heat And Mass Transfer Data is, why Heat And Mass Transfer Data is vital, and how to effectively learn about Heat And Mass Transfer Data .
3. In chapter 2, this book will delve into the foundational concepts of Heat And Mass Transfer Data . This chapter will elucidate the essential principles that need to be understood to grasp Heat And Mass Transfer Data in its entirety.
4. In chapter 3, the author will examine the practical applications of Heat And Mass Transfer Data in daily life. The third chapter will showcase real-world examples of how Heat And Mass Transfer Data can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Heat And Mass Transfer Data in specific contexts. This chapter will explore how Heat And Mass Transfer Data is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Heat And Mass Transfer Data . 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 Heat And Mass Transfer Data .

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