

Table B.3 – Viscosity grade¹⁾ at bulk oil operating temperature for oils having a viscosity index of 160²⁾ for spur, helical and bevel gears

Operating Temp °C	Pitch line velocity, m/s ^{3) 4)}							
	1.0 – 2.5	2.5	5.0	10.0	15.0	20.0	25.0	30.0
10	32	32						
15	46	32	32					
20	68	46	32					
25	68	46	32	32				
30	100	68	46	32				
35	150	100	68	46	32			
40	150	100	68	46	32	32	32	
45	220	150	100	68	46	46	32	
50	220	150	100	68	46	46	46	32
55	320	220	150	100	68	68	46	32
60	460	220	150	100	68	68	68	46
65	460	320	220	150	100	100	68	46
70	680	460	220	150	100	100	100	68
75	680	460	320	220	10	150	100	68
80	1000	680	320	220	150	150	150	100
85	1500	680	460	320	220	220	150	100
90	1500	1000	680	320	220	220	220	150
95	2200	1500	680	460	320	220	220	150
100	3200	1500	1000	460	320	320	220	150

NOTES:

- ¹⁾  Consult gear, bearing and lubricant suppliers if a viscosity grade of less than 68 or greater than 680 is indicated.
-  Review anticipated cold start, peak and operating temperatures, service duty and range of loads when considering these viscosity grades.
-  Select the viscosity grade that is most appropriate for the anticipated stabilized bulk oil operating temperature range.
-  Baseline stabilized bulk oil operating temperature and bearing lubrication requirements.
- ²⁾ This table assumes that the lubricant retains its viscosity characteristics over the expected oil change interval. Consult the lubricant supplier if this does not apply.
- ³⁾ Determine pitch line velocity of all gearsets. Select viscosity grade for critical gearset taking into account cold startup conditions.
- ⁴⁾ For pitch line velocities greater than 30 m/s see ANSI/AGMA 6011 [18].

Lubricants with a VI of 160, such as typically found in PAO based gear lubricants, are generally suitable for use in a wider range of ambient and operating sump temperatures. Extreme variations in start-up, operating sump temperatures, or both may require a higher VI unless oil sump temperatures are controlled by other means.

Refrigeration Oil Temperature Viscosity Chart

Michael Brown

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Refrigeration Oil Temperature Viscosity Chart:

Refrigeration Engineering, 1929 English abstracts from Kholodil naia tekhnika **Tribology Data Handbook E.** Richard Booser, 1997-09-26 This handbook is a useful aid for anyone working to achieve more effective lubrication better control of friction and wear and a better understanding of the complex field of tribology Developed in cooperation with the Society of Tribologists and Lubrication Engineers and containing contributions from 74 experts in the field the Tribology Data Handbook covers properties of materials lubricant viscosities and design friction and wear formulae The broad scope of this handbook includes military industrial and automotive lubricant specifications evolving areas of friction and wear performance and design considerations for machine elements computer storage units and metal working and more Important guidelines for the monitoring maintenance and failure assessment of lubrication in automotive industrial and aircraft equipment are also included Current environmental and toxicological concerns complete this one stop reference With hundreds of figures tables and equations as well as essential background information explaining the information presented this is the only source you need to find virtually any tribology information *Air Conditioning, Heating and Ventilating*, 1959

Refrigeration and Air Conditioning Technician (Theory) - II Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Bureau of Ships Manual: Refrigerating plants (1956) United States. Navy Department. Bureau of Ships, 1942 **Refrigerating Engineering**, 1929 **Compend of**

Mechanical Refrigeration and Engineering John Ewald Siebel, 1911 **13th International Conference on Compressors and Their Systems** Matthew Read, Sham Rane, Ivona Ivkovic-Kihic, Ahmed Kovacevic, 2024-01-01 This new proceedings discusses developments in air gas and refrigeration compressors vacuum pumps and expanders It is the 13th edition of the International Conference on Compressors and their Systems a three day conference organised by the Centre for Compressors Technology at City University of London in collaboration with among other the MEchE IIR and IOR The conference offers a platform to identify current challenges in the field and provide the essential content and direction to shape future research The International Conference on Compressors and their Systems series began in 1999 as a result of industrial consultation and a need for academic collaboration Initially the conference was organised by the Fluid Machinery Group of the Institution of Mechanical Engineers IMechE with the support of Holroyd From 2009 the Centre for Compressor Technology at City University of London took over its management and the conference is now one of the main conventions taking place biennially in the UK becoming world renowned for its place in industry and academia to gather and discuss a broad range of topical issues related to compressors and compression systems This year's conference has the theme Compressors and Expanders in Future Energy Systems and will be of interest to researchers and engineers in industry

General Electric Review General Electric Company, 1921 *Lubricants and Lubrication* Theo Mang, Wilfried Dresel, 2017-02-10 Praise for the previous edition Contains something for everyone involved in lubricant technology Chemistry Industry This completely revised third edition incorporates the latest data available and reflects the knowledge of one of the largest companies active in the business The authors take into account the interdisciplinary character of the field considering aspects of engineering materials science chemistry health and safety The result is a volume providing chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications focusing not only on the various products but also on specific application engineering criteria A classic reference work completely revised and updated approximately 35% new material focusing on sustainability and the latest developments technologies and processes of this multi billion dollar business Provides chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications looking not only at the various products but also at specific application engineering criteria All chapters are updated in terms of environmental and operational safety New guidelines such as REACH recycling alternatives and biodegradable base oils are introduced Discusses the integration of micro and nano tribology and lubrication systems Reflects the knowledge of Fuchs Petrolub SE one of the largest companies active in the lubrication business 2 Volumes wileyonlinelibrary.com/ref/lubricants **Two-Phase Flow in Refrigeration Systems** Junjie Gu, Shujun Wang, Zhongxue Gan, 2013-08-17 Two Phase Flow in Refrigeration Systems presents recent developments from the authors extensive research programs on two phase flow in refrigeration systems This book covers advanced mass and heat transfer and vapor compression refrigeration systems and shows how the performance of an automotive air conditioning system is affected through results obtained experimentally and theoretically specifically with consideration of two phase flow and oil concentration The book is ideal for university postgraduate students as a textbook researchers and professors as an academic reference book and by engineers and designers as handbook **TM 5-4220-209-12p** Delene Kvasnicka, www.survivablebooks.com, TM 5 4220 209 12p *Biolubricants* Jan C.J. Bart, Emanuele Gucciardi, Stefano Cavallaro, 2012-12-18 Lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem Bio based lubricant formulations present a promising solution Biolubricants Science and technology is a comprehensive interdisciplinary and timely review of this important subject Initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants Further chapters describe catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications Final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends With its distinguished authors Biolubricants Science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as

researchers and academics with an interest in the subject It provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry A comprehensive interdisciplinary and timely review of bio based lubricant formulations Addresses the principles of lubrication Reviews fossil and bio based feedstock resources for biodegradable lubricants **Synthetics, Mineral Oils, and Bio-Based Lubricants** Leslie R. Rudnick,2005-12-22 As the field of tribology has evolved the lubrication industry is also progressing at an extraordinary rate Updating the author s bestselling publication Synthetic Lubricants and High Performance Functional Fluids this book features the contributions of over 60 specialists ten new chapters and a new title to reflect the evolving nature of the **Automotive Air Conditioning and Climate Control Systems** Steven Daly,2011-04-18 Automotive Air conditioning and Climate Control Systems is a complete text and reference on the theoretical practical and legislative aspects of vehicle climate control systems for automotive engineering students and service professionals It provides the reader with a thorough up to date knowledge of current A C systems refrigerants and the new possible replacement systems like CO2 and includes unrivalled coverage of electronic and electrical control Filling the gap in the automotive engineering and servicing market for students and those training on the job this book will help both newcomers and those with more experience of air conditioning systems maintenance engineering to keep up with the latest developments and legislation Detailed coverage of European and US vehicle HVAC systems Thorough explanation of current and future systems including CO2 Meets relevant C G IMI and HND vocational and professional qualifications IMI recommended reading material Includes practical cases studies and examples from design and manufacturing companies including Ford Vauxhall Toyota VW Visteon Sanden and others accompanied by over 300 detailed illustrations and photographs **Lubrication** ,1926 Heating, Piping, and Air Conditioning ,1929 Issues for Jan 1935 contain a directory of heating piping and air conditioning equipment **Convective Flow Boiling** John C. Chen,2019-08-16 This book comprises selected papers from the First International Conference on Convective Flow Boiling The purpose of the conference is to examine state of science and recent developments in technology of flow boiling i e boiling systems which are affected by convective flows **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,1999 **Refrigeration and Refrigerating Machinery** International Correspondence Schools,1910

Refrigeration Oil Temperature Viscosity Chart: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Refrigeration Oil Temperature Viscosity Chart : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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