

# PLANT ENGINEERING'S Interchangeable lubricants

Joseph L. Fossett, Senior Editor, Plant Engineering Magazine

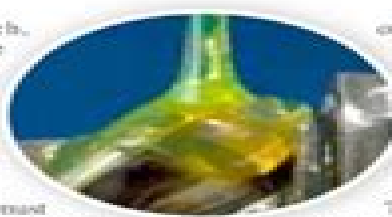
**W**hen, where, how much, and with what — these are the fundamental questions that have to be answered in equipment lubrication. The answers are normally provided by the builders of process and manufacturing equipment.

However, maintenance personnel must sometimes address the "with what" question when finding substitutes for previously used lubricants. This exclusive guide, published at 3-yr intervals, provides quick identification of major lubricant sources and cross referencing of products.

The ideal lubricant would last forever and retain all of its properties. In reality, leaks, evaporation, heat, oxidation, and contamination combine to limit its service life. Properly answering the "when" question requires monitoring, by means of oil analysis, which is a fundamental component of modern lubrication and preventive/predictive maintenance programs.

Regular laboratory analysis indicates the health of both lubricant and machine. Viscosity, contamination, oxidation, acidity, and metals content are examples of parameters analyzed.

The "where" and "how much" concerns are good candidates for the visual approach to total productive maintenance. For example, lube fittings, filler caps, oil cans, and grease guns can be color-coded for the type



of lubricant and the point of application. Captive plastic dirt caps for neck fittings are available in a variety of colors. Color-coding is often carried over to lube diagrams, which are laminated and attached to equipment or carried on lube routes.

## Using the guide

This exclusive guide presents products from 118 companies who responded to our request for information. Some chose not to respond and you will find them missing. Product names, listed in each category, were provided by the manufacturers.

Presenting the data does not reflect the quality of the lubricant, imply the performance expected under particular operating conditions, or serve as an endorsement. Lubricant and equipment manufacturers should be consulted for specific applications or questions.

## Viscosity a key factor

Viscosity is the property most widely accepted for identifying lubricants within a category. This characteristic serves as the basis for *PLANT ENGINEERING* magazine's product listings. Viscosity can be specified in several ways. The Viscosity/grade comparison chart compares commonly used systems. In this guide, lubricants within each category are arranged according to ISO viscosity grade, with the corresponding Saybolt viscosity shown for reference.

Viscosity/grade comparison chart

ISO viscosity grade	Kinematic viscosity Cst @ 40°C	Saybolt viscosity SUS @ 100 F	Gear lubricant specification	EP gear lubricant	Worm gear lubricant
2	1.98-2.42	32	-	-	-
3	2.69-3.52	36	-	-	-
5	4.14-5.56	40	-	-	-
7	5.12-7.48	50	-	-	-
10	9-11	60	-	-	-
15	13.5-16.5	75	-	-	-
22	19.8-24.2	100	-	-	-
32	28.8-36.2	150	-	-	-
46	41.4-50.6	215	AGMA 1	-	-
68	61.2-74.8	315	AGMA 2	EP 2	-
100	90-110	460	AGMA 3	EP 3	-
150	135-165	700	AGMA 4	EP 4	-
220	198-242	1000	AGMA 5	EP 5	-
320	288-352	1500	AGMA 6	EP 6	-
460	414-506	2150	AGMA 7	EP 7	Comp 7

Note: Most data guide covers only mineral oil-based products. A smaller viscosity grade is published for synthetic lubricants (EP, July 2003, p. 46, ENR 10/03). The guide is available on our web site at [plantengineering.com](http://plantengineering.com). Email the authors, and then submit the July 2003 issue.

# Plant Engineering Magazine Interchangeable Lubricants Guide

**Bella H. Chudnovsky**



## **Plant Engineering Magazine Interchangeable Lubricants Guide:**

### **Transmission, Distribution, and Renewable Energy Generation Power Equipment** Bella H.

Chudnovsky,2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment Interchangeable

Industrial Lubricants ,1989 **Tribology** James M. Watterson,2019-01-04 Tribology A Simple Guide to the Study of Friction addresses the types of seals and bearings that are commonly found in most rotating and moving machinery including how they are designed how they work and what can be done to ensure that they continue maintain proper lubrication and successful operation Tribology is the scientific and engineering study of friction and in common practice it most often involves the control and reduction of friction This is particularly critical to the successful and continued operation of moving parts This book addresses the types of seals and bearings that are commonly found in most rotating and moving machinery including how they are designed how they work and what can be done to ensure that they continue maintain proper lubrication and successful operation The author discusses the critical lubrication issues dealt with in gears and gear boxes focusing on specific types of mechanical seals including compression seals hydrodynamic seals hydrostatic seals and mechanical face seals Dr Watterson also introduces the reader to the major types of bearings including roller bearings ball bearings and various types of sealed bearing systems and their maintenance and lubrication requirements *An*

*Introduction to Groundwater Sources Operation and Maintenance* J. Paul Guyer, P.E., R.A.,2017-12-08 Introductory technical guidance for civil engineers and other professional engineers and facility managers interested in operation and maintenance of groundwater supply sources Here is what is discussed 1 OVERVIEW 2 REFERENCES 3 WATER SUPPLY HYDROLOGY 4 WATER USE 5 GROUNDWATER SUPPLIES 6 SURFACE WATER SUPPLIES 7 WATER QUALITY 8 APPLICABLE

DOCUMENTS **Electrical Power Transmission and Distribution** Bella H. Chudnovsky,2012-11-16 Electrical distribution and transmission systems are complex combinations of various conductive and insulating materials When exposed to atmospheric corrosive gases contaminants extreme temperatures vibrations and other internal and external impacts these systems deteriorate and sooner or later their ability to function properly is destroyed Electrical Power

Transmission and Distribution Aging and Life Extension Techniques offers practical guidance on ways to slow down the aging of these electrical systems improve their performance and extend their life Recognize the Signs of Aging in Equipment and Learn How to Slow It A reference manual for engineering maintenance and training personnel this book analyzes the factors that cause materials to deteriorate and explains what you can do to reduce the impact of these factors In one volume it brings together extensive information previously scattered among manufacturers documentation journal papers conference proceedings and general books on plating lubrication insulation and other areas Shows you how to identify the signs of equipment aging Helps you understand the causes of equipment deterioration Suggests practical techniques for protecting electrical apparatus from deterioration and damage Supplies information that can be used to develop manuals on proper maintenance procedures and choice of materials Provides numerous examples from industry This book combines research and engineering material with maintenance recommendations given in layperson s terms making it useful for readers from a range of backgrounds In particular it is a valuable resource for personnel responsible for the utilization operation and maintenance of electrical transmission and distribution equipment at power plants and industrial facilities **An**

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,1921 **Monthly Catalog of United States Government Publications** ,

The Top Books of the Year Plant Engineering Magazine Interchangeable Lubricants Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Plant Engineering Magazine Interchangeable Lubricants Guide : 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, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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